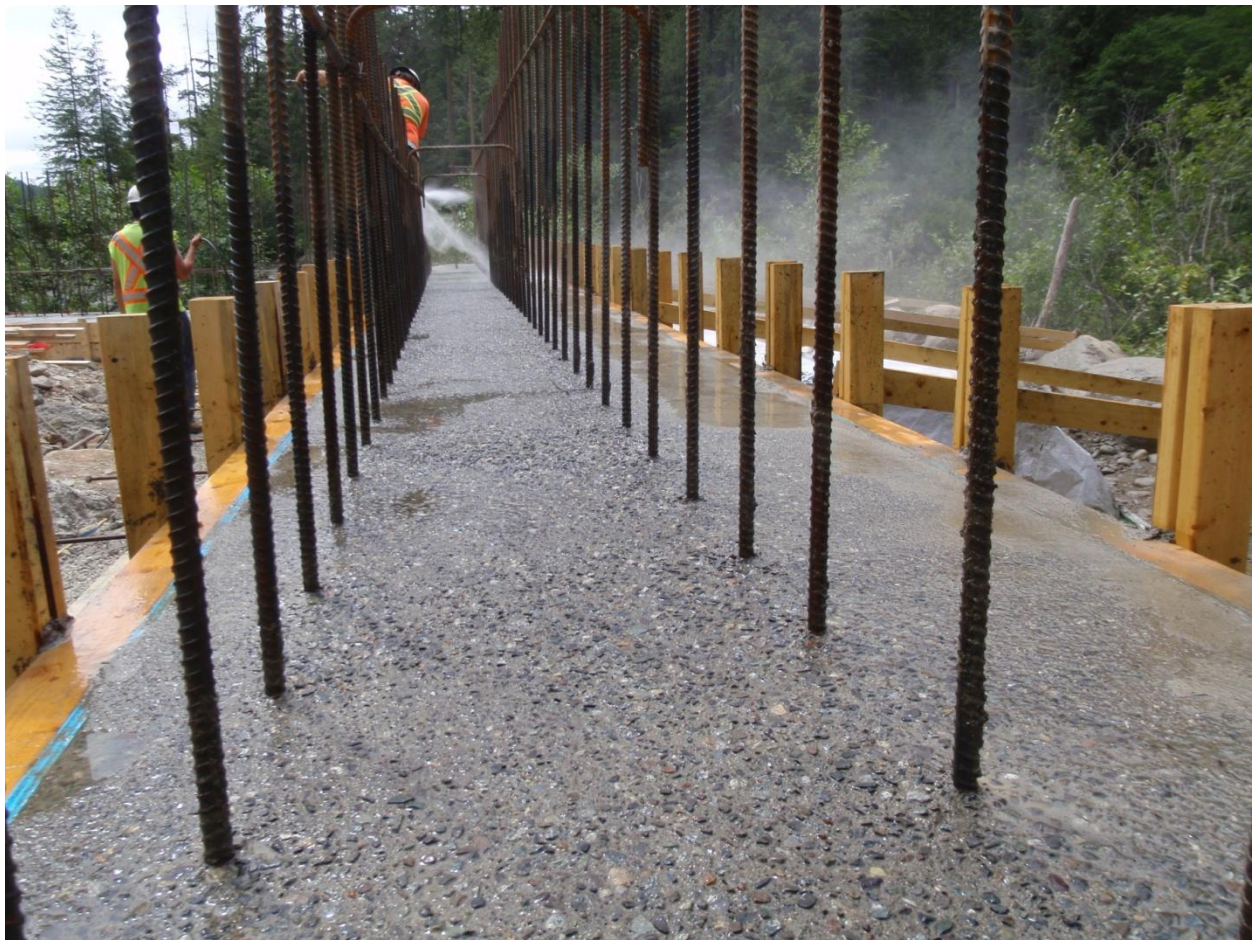


RECOGNIZED PRODUCTS LIST

May 2012 Edition



Hwy. 4 Wally Creek Bridge Construction

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- Site Index
- Search under “R” for Recognized Products List

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INTRODUCTION / DEFINITIONS

The Recognized Products List 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.

Brand name 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 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 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.

NOTE: Tentative definition has been replaced with Acceptance. Tentative Products are still acceptable as complying with the contract.

“PROVEN” products are products which have an adequate performance record has been established on Ministry projects; and

“APPROVED” 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).

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, users are encouraged to direct inquiries to the Committee by fax to the Ministry of Transportation and Infrastructure, Geotechnical, Materials & Pavement Engineering, Victoria, fax no. (250) 356-2012 or email to: RPL@gov.bc.ca. The RPL Standing Committee welcomes suggestions for improving its service.

Pamphlets explaining the Committee and including a products submission form are available from the Committee contact and from all Ministry Regional Geotechnical, Materials & Pavement Offices throughout the Province.

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 PRODUCTS

ASPHALT CEMENT

GENERAL

As specified Standard Specifications for Highway Construction Section 952 and as specified in 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)

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)
--

McAsphalt (Calgary, AB; Vancouver, BC)
--

MCTar (Clover Bar, AB)

ADDITIVES for ASPHALT MIX

GENERAL

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

LIQUID ASPHALT (CUT BACKS)

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

Imperial

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

PRODUCERS

Ambertec
McAsphalt
Pounder
Western Asphalt Products

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)
EP 94 HI-PEN PRIMER (MCTAR) (651)
SS-1

OTHER ADDITIVES

ACCEPTED PRODUCTS

Redicote C2914 (318)
Silicone Dow Corning DC 200 Fluid

ANTI-STRIPPING AGENT

PROVEN PRODUCTS	ACCEPTED PRODUCTS
Ad-Here LOF 65-00 (543) CES 446 Redicote C2914 (318) Travcor 4505 (556) Indulin 814 (for H.F. Emulsions)	Roadshop (McTar) 129-A (695) Ad Here 77-00 (994) Redicote AP-1 & E-6 (1135) (special applications)

WARM MIX ASPHALT ADDITIVES

A PROJECT proposing to use an accepted or alternative warm mix additive in the Asphalt Pavement Mix requires a REVIEW and APPROVAL by the Chief Geotechnical, Materials, and Pavement Engineer PRIOR to using a warm mix additive in an asphalt mix design.

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 must comply with SS 502.

ACCEPTED PRODUCTS
Sasolwax - Sasobit (1098) McAsphalt - Evotherm 3G (811)

ENGINEERED PRODUCTS

MULTI-GRADE

PRODUCERS	ACCEPTED PRODUCTS
None at the present time.	

POLYMER ADDITIVES

PROVEN PRODUCTS	ACCEPTED PRODUCTS
SBS Latex	Rospphalt 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

PROVEN PRODUCTS	ACCEPTED PRODUCTS
	Bitumen 352 (534) Husky Black Max (401) Imperial Oil – EB 350 Imperial Oil – EB 352 Infrapave Polymer Binder (473)

RUBBER ASPHALT

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

PROVEN PRODUCTS	ACCEPTED PRODUCTS
None at this time.	

TACK COAT & PRIMERS

PROVEN PRODUCTS	ACCEPTED PRODUCTS
EP 94 HI-PEN primer (McTar) (651)	EPT McAsphalt (811)
RC-30	Tackless Tack McAsphalt (811)
RM-20	
SS-1 (not for joints - tack coat only not for use as a primer)	
CSS-1	
Snap Tac	
EP 2000	
Husky Oil – EAP-2 (525)	

EMULSIFIED PENETRATING PRIMERS AND TACK COAT

PROVEN PRODUCTS	ACCEPTED PRODUCTS
EP 94	ABT-2 (986)
EP 2000 (068)	Enviro-Prem McAsphalt (811)
EAP-2	

ASPHALT MAINTENANCE & REHAB.

JOINT / CRACK SEALING SYSTEMS

PROVEN PRODUCTS	ACCEPTED PRODUCTS
	Seal –cut (630)
	TOK Reinstatement Tape (547)
	TOK band Special (548)
	Denso Skid Resistant Tape (832)
	Denso Reinforcement Tape (833)

PREFABRICATED CRACK SEALERS (MEMBRANES)

PROVEN PRODUCTS	ACCEPTED PRODUCTS
Crack-a-Tac (274)	Beram 195 (593)
	Petrotac crack suppression membrane (729)
	Tapcoat M860 Road Repair (380)
	MiraTak (885)

REJUVENATORS

CONVENTIONAL

PROVEN PRODUCTS	ACCEPTED PRODUCTS
Cyclogen L (203)	Rejuvenite
CRF- Restorative Seal (665)	Rap 400
Reclamite (203)	Cyclogen P (948)
Flexon 843 (834) <i>renamed - formerly Rejuvoil 2</i>	

HOT-IN-PLACE

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

RUBBERIZED & ELASTICIZED CRACK SEALANTS

ENTIRE PROVINCE

PROVEN PRODUCTS	ACCEPTED PRODUCTS
Bakelite 590-13A	Beram 195 / 195/LM Hot Pour (594)
Bi-Crackee (433)	Crafco-Roadsaver 521 and 522 (1038)
CP Primer	Elsro 1191 (439)
Crafco Roadsaver 221 (1038)	Elsro 1192
Crafco Roadsaver 231 (1038)	Crafco Asphalt Rubber Plus (1038)
Elastopave 2110	Crafco Polyflex Type 1 and 2 (1038)
Hydrotech Sealz 6165	
Koch 9005 (133)	
Meadows Hi-Spec	
Shell Cariphalt	
Tremco THC 200	

LOWER MAINLAND SUNSHINE COAST / VANCOUVER ISLAND

PROVEN PRODUCTS	ACCEPTED PRODUCTS
NOTE: All products listed for entire Province plus:	
Asphalt Rubber, Type 2 or "MS"	Beram 190
Bakelite 590-13	
Crafco Asphalt Rubber Plus (Viscous) (1038)	Crafco Polyflex Type 2 (1038)
Crafco Roadsaver 211(1038)	
Flex-A-Fill	
Hydrotech Sealz 6160	
Meadows 164R	
Tremco THC 205	

TRAFFIC LOOP SEALANT

PROVEN PRODUCTS	ACCEPTED PRODUCTS
	Q-Seal 295 S

SPECIALTY PAVING DEVICES

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

SURFACE TREATMENT

PROVEN PRODUCTS	ACCEPTED PRODUCTS
RC- 30 SS-1 CRF (665) Reclamite (203)	Enduraseal 300 (254) Rejuvaseal RA-1 (164) Rejuvail 1 (464) Renoil RA-5 (251)

ASPHALT CRACK FILLER SEALANTS

PROVEN PRODUCTS	ACCEPTED PRODUCTS
CRF(665) HF 150P	

ASPHALT MIXES PROPRIETARY

ASPHALT PATCHING

ASPHALT BASED

PROVEN PRODUCTS	ACCEPTED PRODUCTS
Everlasting Patch Mix WR Meadows Road Repair (Reg, Fine, and Bulk) Pavement Cold Patch (652) QPR 2000 (265) Unique Patch Mix QPR (High Performance Cold Mix)(265)	Blacktop Husky Black Mix (401) Innovative Asphalt Repair (569) Koch EXP Winter Patch (621) Perma-Patch (151) RC 1100 Cold Pour (331) Redicote 95S (318) Tapecoat M 860 Road Rep (380) Tag 8000 (479) Target – Cold Patching Asphalt WSPE-1 Spray Patch Emulsion (939) Crafco Polypatch (1038) EZ Street Cold Patch Asphalt (1092)

EPOXY BASED

PROVEN PRODUCTS	ACCEPTED PRODUCTS
Miton 514 (138) Sikadur Sternflex 1 (362) Sternflex 2 (359) Talypon 1509-208 (344) Talypon 1509-205 (345)	Everset Type II (358)

PORTLAND CEMENT BASED

PROVEN PRODUCTS	ACCEPTED PRODUCTS
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Duracal
Excel Permanent Cold Patch (646)
Express Repair
SET 45

Koch EXP Winter Patch (621)
Ocean Patching
Road Repair 1170,1175,1178 (644)
Flexcrete (713)

BRIDGES

ALTERNATIVE COMPOSITE BRIDGE GIRDERS

PROVEN PRODUCTS	ACCEPTED PRODUCTS
	Compo-Girder (647)

BRIDGE BEARINGS

Products in the following categories are considered a part of the engineered solution and require specific analysis on a case by case basis.

DISC BEARINGS

LOAD MEASURING BEARINGS

POT BEARINGS; SEISMIC ISOLATION BEARINGS

SHOCK ABSORPTION

BRIDGE BEARING PADS

Products in the following categories are considered a part of the engineered solution and require specific analysis on a case by case basis.

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)	Fabric 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.

PROVEN PRODUCTS	ACCEPTED PRODUCTS
Fyfe Co. LLC (1059) Sika Canada Inc BASF Mitsubishi Chemical - Replark	

PEDESTRIAN FENCING

PROVEN PRODUCTS	ACCEPTED PRODUCTS
Dural (Z-Tech) (434)	

BRIDGE DECKS

DECK JOINT SYSTEMS

ASPHALTIC PLUG DECK JOINTS

PROVEN PRODUCTS	ACCEPTED PRODUCTS
Bridge Joint Infra-Flex APJ Bridge Joint (599) Jeene Joint (370) Koch B.J.S. (329) Oletex XE 300 (561) Series 1000(Z-Tech) (434) Series 2000(Z-Tech) (434) Silico Flex (654) Thorma Joint (192)	Sho-Bond #301 (736)

COMPRESSION SEALS

PROVEN PRODUCTS	ACCEPTED PRODUCTS
	Neoferma Joint Seals (723) Tensa Grip-Movement Joint Silent (679) Tensa Grip –Movement Joint (680) Tensa Lastic Grip (681) Britflex “NJ” (859)

FINGER JOINTS

PROVEN PRODUCTS	ACCEPTED PRODUCTS
	Tensa-flex finger (682)

MODULAR JOINTS

PROVEN PRODUCTS	ACCEPTED PRODUCTS
	Transflex (857)

EXPANSION JOINT HEADER

PROVEN PRODUCTS	ACCEPTED PRODUCTS
	WaboCrete II Elastomer Concrete (1110)

STRIP SEALS

PROVEN PRODUCTS	ACCEPTED PRODUCTS
	Tensa – Acme joint Seals (678)

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)
Tamco Bridgeguard (636)	Tamko TWP Primer only (637)

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
Bakor 790-11 MTO Grade (932)	Crafco Rubberized Waterproofing Membrane(1038)
Bemalastic 1213 BDM	CCW 500 CDN (1108) (Accepted as equivalent to Bemalastic 1213 BDM)
Ultraseal 3750	

COMPONENTS FOR - HOT RUBBERIZED ASPHALT MEMBRANE SYSTEM

- **PROTECTION BOARD**

ACCEPTED PRODUCTS	
Vibraflex MTO Protection Board	IKO Protectboard
Bakor Asphalt Protection Board (932)	

- **RUBBER SHEET**

ACCEPTED PRODUCTS	
Elastosheet 6147	Bakor 990-25 (932)
BP47 Elastomeric Reinforcement	

- **FABRIC REINFORCEMENT**

ACCEPTED PRODUCTS	
Bakor Polyester fabric (932)	Remay 2016

- **WICK DRAIN**

ACCEPTED PRODUCTS	
Amerdrain 407	Nilex MD/7407

OTHER MEMBRANE SYSTEMS

LIQUID CHEMICALLY CURED – METHYL METHACRYLATE, POLYMER, EPOXY

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

ACCEPTED PRODUCTS	
Sterling Lloyd – Eliminator (172)	Britdex "MDP" (861)
Pro-Poxy type III DOT (1063)	BDM Membrane (1115)

LIQUID HOT APPLIED RUBBERIZED ASPHALT

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

Capseal-X (Cappar)	Evercrete Top Seale (Surface Treatment) (615)
Capseal-U	Fabrishield 840
Chem-Trete BSM-40	BASF Hydrozo Silane 40 VOC (365)
Concessive-AEX 3142SIL-ACT ATS 42	Isoflex 620
Dow-Corning 899	Iso-Flex 618
Duralane (Dural)	Miton 400 (147)
Marathon-40 (Watson)	PQ 6100 BM (529)
Suretreat	Sikaguard 70
Perma-Seal 444	Sikaguard 71H
Evercrete / Dynacrete DPS	BASF Enviroseal 40 (365)
	Kwik Bond Polymers (1127) Bridge Sealant

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

COATING SYSTEMS

NOTE:

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 is conducting a **second round** of lab testing for bridge coating products. Now ongoing and no further products will be accepted for testing this round.

Lab testing costs (approximately \$3,500 US per sample for lab testing) are covered by the Manufactures/Suppliers through a qualified testing agency selected by the CPTP coordinator. Field testing costs are covered by the CPTP.

Manufactures/Suppliers shall submit products for CPTP testing by emailing a request to RPL@gov.bc.ca and must indicate their interest to participate in the second round of 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 July 1st, 2010 (Attn: Daryl Finlayson) to let CPTP know their company wishes to participate in the **second round** of testing.

More information can be obtained by calling the RPL contact at 250-387-4360.

NOTE: Federal Environmental Regulations are being legislated to limit volatile organic compounds in paints and coatings (possibly coming into effect January 1, 2012 – proposed regs. to start the 3rd anniversary of the effective Regulation date). Recognized Coating Systems products will be subject to complying with these regulations when they come into effect.

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 Alberta Transportation and British Columbia Transportation and Infrastructure. Effective Feb 4, 2010

Manufacturer	Supplier	Generic System Type	System Components				Structure Type						System Application
			Sealer	Primer	Midcoat	Topcoat	B1	B2	B3	B4	B5	B6	
Amercoat Canada	General Paint (780) 468-1558 (604) 253-3131	Organic Zn / Epoxy / Polyurethane		Amercoat 68HS	Amercoat 240	Amercoat 450H	✓	✓	✓	✓	✓		SF2
ICI-Devoe	ICI-Devoe (778) 838-4579 (780)465-3600	Organic Zn / Epoxy / Polyurethane		Cathacoat 315	Bar Rust 231	Devthane 349	✓	✓	✓	✓	✓		SF2
International Paint	International Paint (604) 988- 7191	Organic Zn / Epoxy / Polyurethane		Interzinc 315B	Intergard 475HS	Interthane 870UHS	✓	✓	✓	✓	✓		SF2
Sherwin Williams	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	Termarust Technologies (888) 279-5497	Organic Zn / Epoxy / Polyurethane		Termazinc 1100	Termapoxy 2330	Termathane 2400	✓	✓	✓	✓	✓		SF2
ICI-Devoe	ICI-Devoe (778) 838-4579 (780)465-3600	Organic Zn / Polyurethane		Cathacoat 315		Devthane 349	✓	✓	✓	✓	✓		SF3
Sherwin Williams	Sherwin Williams (780) 454-7800 (604)253-5424	Organic Zn / Polysiloxane		Zinc Clad III HS		Polysiloxane XLE-80	✓	✓	✓	✓	✓		SF4
Amercoat Canada	General Paint (780) 468-1558 (604) 253-3131	Organic Zn / Epoxy / Polysiloxane		Amercoat 68HS	Amercoat 240	PSX 1001			✓				SF7
Cloverdale Paint	Cloverdale Paint Inc. (780) 453-5700, (604)596-1736	Organic Zn / Epoxy / Acrylic Polysiloxane		ClovaZinc 3	ClovaMastic 83110	Cloverdale SiloxyCoat			✓				SF7
International Paint	International Paint (604) 988- 7191	Organic Zn / Epoxy / Acrylic Polysiloxane		Interzinc 315B	Intergard 475HS	Interfine 878	✓	✓	✓	✓	✓		SF7
Cloverdale Paint	Cloverdale Paint Inc. (780) 453-5700, (604)596-1736	CaSulphonate Alkyd	ClovaCorr 83183			ClovaCorr 83180			✓				SF8, SFO3, U1, SFTB
Termarust Technologies	Termarust Technologies (888) 279-5497	CaSulphonate Alkyd	TR2200LV			TR 2100		✓	✓				SF8, SFO3, U1, SFTB
Watson Coatings Inc.	Watson Coatings (314) 521-2000	CaSulphonate Alkyd	AS8201			Armor-Shield AS8301		✓	✓				SF8, SFO3, U1, SFTB
Sherwin Williams	Sherwin Williams (780) 454-7800 (604)253-5424	MCZn / MCU / MCU		Corothane I Galvapak 1K	Corothane 1 IronOx B	Corothane 1 IronOx A HS		✓	✓	✓			SFO3, U2
Amercoat Canada	General Paint (780) 468-1558 (604) 253-3131	Inorganic Zn / Epoxy / Polyurethane		Dimetcote 9H	Amercoat 240	Amercoat 450H	✓	✓	✓	✓	✓		SS1
ICI-Devoe	ICI-Devoe (778) 838-4579 (780)465-3600	Inorganic Zn / Epoxy / Polyurethane		Cathacoat 302HB	Bar Rust 231	Devthane 379	✓	✓	✓	✓	✓		SS1
ICI-Devoe	ICI-Devoe (778) 838-4579 (780)465-3600	Inorganic Zn / Epoxy / Polyurethane		Cathacoat 302HB	Bar Rust 235	Devthane 379	✓	✓	✓	✓	✓		SS1
ICI-Devoe	ICI-Devoe (778) 838-4579 (780)465-3600	Inorganic Zn / Epoxy / Polyurethane		Cathacoat 302HB	Bar Rust 236	Devthane 379	✓	✓	✓	✓	✓		SS1
ICI-Devoe	ICI-Devoe (778) 838-4579 (780)465-3600	Inorganic Zn / Epoxy / Polyurethane		Cathacoat 302HB	Bar Rust 231	Devthane 349	✓	✓	✓	✓	✓		SS1
ICI-Devoe	ICI-Devoe (778) 838-4579 (780)465-3600	Inorganic Zn / Epoxy / Polyurethane		Cathacoat 302HB	Devran 261 QC	Devthane 349	✓	✓	✓	✓	✓		SS1
Sherwin Williams	Sherwin Williams (780) 454-7800 (604)253-5424	Inorganic Zn / Epoxy / Polyurethane		Zinc Clad II Plus	Macropoxy 646 Fast Cure	Acrolon 218 HS	✓	✓	✓	✓	✓		SS1
ICI-Devoe	ICI-Devoe (778) 838-4579 (780)465-3600	Inorganic Zn / Polyurethane		Cathacoat 302HB		Devthane 349		✓	✓	✓			SS3
Amercoat Canada	General Paint (780) 468-1558 (604) 253-3131	Inorganic Zn / Polysiloxane		Dimetcote 9H		PSX 700FD	✓	✓	✓	✓	✓		SS4

Structure Type	Shop Application	Field Application	System Application
B1 : Through / Pony Truss	SS1 : IOZ-Epoxy-Polyurethane	SF1 : Metallizing-Epoxy-Polyurethane	Field Overcoat Application
B2 : Deck Truss	SS2 : IOZ-Epoxy-Polysiloxane	SF2 : OZ-Epoxy-Polyurethane	SFO1 : Water Based Acrylics and Vinyls
B3 : Girder/River	SS3 : IOZ-Polyurethane	SF3 : OZ-Polyurethane	SFO2 : Water Based Single Comp. O/C
B4 : Grade Separation	SS4 : IOZ-Polysiloxane	SF4 : OZ-Polysiloxane	SFO3 : Solvent Based Single Component
B5 : Rigid Frame Grade Separation	Wood	SF5 : Alkyd No Longer Used	SFO4 : Solvent Based Surface Tolerance Epoxy
B6 : Partially Submerged Pipe Piles	WFR : Railings For Future Use	SF6 : Multi-Component Urethane For Future Use	SFO5 : Alkyd No Longer Used
	WFT : Touchup For Future Use	SF7 : OZ-Epoxy -Polysiloxane	SFO6 : Misc. Epoxy-Polyurethane
	WF1 : Oil Sealer No Longer Used	SF8 : Calcium Sulphonate Systems for Steel	SFO7 : Misc. Epoxy-Polysiloxane
	WF2 : Water Based For Future Use	SFIM1 : Coal Tar Epoxy or Equivalent For Future Use	Steel Railings and Posts
			SRG : Railings Hot Dip Galvanizing
			SRM : Metallizing
			Touchup Systems
			SFTA : Aerosol Rust Inhibitive Primer / Topcoat
			SFTB : Brushable Rust Inhibitive Primer / Topcoat
			Penetrating Sealers
			SPS : Steel Penetrating Sealers
			Unique Applications
			U1 : Enclosed Spaces-Protected areas
			U2 : Low Temperature High Humidity
			U3 : Elastomeric Coatings For Future Use

CPTP Recognized Products List

The table above lists all systems that are approved by Alberta Transportation and British Columbia Ministry of Transportation and Infrastructure. Only these products may be used on their respective projects.

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
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.

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	PRIMER	SEAL COAT	STRIPE COAT	MIDCOAT	TOPCOAT
Amercoat Canada	Dimetcote 9H		Amercoat 240	Amercoat 240	Amercoat 450H
ICI-Devoe	Cathacoat 302HB		Bar Rust 231	Bar Rust 231	Devthane 379
ICI-Devoe	Cathacoat 302HB		Bar Rust 235	Bar Rust 235	Devthane 379
ICI-Devoe	Cathacoat 302HB		Bar Rust 236	Bar Rust 236	Devthane 379
ICI-Devoe	Cathacoat 302HB		Bar Rust 231	Bar Rust 231	Devthane 349
ICI-Devoe	Cathacoat 302HB		Devran 261 QC	Devran 261 QC	Devthane 349
Sherwin Williams	Zinc Clad II Plus		Macropoxy 646 Fast Cure	Macropoxy 646 Fast Cure	Acrolon 218 HS
SURFACE PREPARATION SSPC-SP10 "Near White Metal", Profile: 50-75 µm (2-3 mils)					

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.
- 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	PRIMER	SEAL COAT	STRIPE COAT	MIDCOAT	TOPCOAT
ICI-Devoe	Cathacoat 302 HB		Devthane 349		Devthane 349
SURFACE PREPARATION SSPC-SP10 "Near White Metal", Profile: 50-75 µm (2-3 mils)					

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	PRIMER	SEAL COAT	STRIPE COAT	MIDCOAT	TOPCOAT
Amercoat Canada	Dimetcote 9H		PSX 700FD		PSX 700FD
SURFACE PREPARATION SSPC-SP10 "Near White Metal", Profile: 50-75 µm (2-3 mils)					

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.

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						
SURFACE PREPARATION		SSPC-SP5 "White Metal", Profile: 50-100 µm (2-4 mils)				

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.

MANUFACTURER	PRIMER	SEAL COAT	STRIPE COAT	MIDCOAT	TOPCOAT
Amercoat Canada	Amercoat 68HS		Amercoat 240	Amercoat 240	Amercoat 450H
ICI-Devoe	Cathacoat 315		Bar Rust 231	Bar Rust 231	Devthane 349
International Paint	Interzinc 315B		Intergard 475HS	Intergard 475HS	Interthane 870UHS
Sherwin Williams	Zinc Clad III HS		Macropoxy 646 Fast Cure	Macropoxy 646 Fast Cure	Acrolon 218 HS Polyurethane
Termarust Technologies	Termazinc 1100		Termapoxy 2330	Termapoxy 2330	Termathane 2400
SURFACE PREPARATION SSPC-SP 6/NACE No.3, Commercial Blast Cleaning, , Minimum Profile: 50-75 µm (2-3 mils)					

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 – 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	PRIMER	SEAL COAT	STRIPE COAT	MIDCOAT	TOPCOAT
ICI-Devoe	Cathacoat 315		Devthane 349		Devthane 349
SURFACE PREPARATION SSPC-SP 6/NACE No.3, Commercial Blast Cleaning, , Minimum Profile: 50-75 µm (2-3 mils)					

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	PRIMER	SEAL COAT	STRIPE COAT	MIDCOAT	TOPCOAT
Sherwin Williams	Zinc Clad III HS		Polysiloxane XLE-80		Polysiloxane XLE-80
SURFACE PREPARATION SSPC-SP 6 / NACE No.3, Commercial Blast Cleaning, , Minimum Profile: 50-75 µm (2-3 mils)					

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 – 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						
SURFACE PREPARATION						

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	PRIMER	SEAL COAT	STRIPE COAT	MIDCOAT	TOPCOAT
Amercoat Canada	Amercoat 68HS		Amercoat 240	Amercoat 240	PSX 1001
Cloverdale Paint	ClovaZinc 3		ClovaMastic 83110	ClovaMastic 83110	Cloverdale SiloxyCoat
International Paint	Interzinc 315B		Intergard 475HS	Intergard 475HS	Interfine 878
SURFACE PREPARATION SSPC-SP 6 / NACE No.3, Commercial Blast Cleaning, , Minimum Profile: 50-75 µm (2-3 mils)					

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	PRIMER	SEAL COAT	STRIPE COAT	MIDCOAT	TOPCOAT
Cloverdale Paint		ClovaCorr 83183			ClovaCorr 83180
Termarust Technologies		Termarust 2200LV			TR 2100
SURFACE PREPARATIONS SPC SP-6 "Commercial" blast, New Steel SP-10 Near White Blast					

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.

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
For Future Use					

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
For Future Use					

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	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 – 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	PRIMER	SEAL COAT	STRIPE COAT	MIDCOAT	TOPCOAT
Cloverdale Paint		ClovaCorr 83183			ClovaCorr 83180
Sherwin Williams	Corothane I Galvapak 1K			Corothane 1 IronOx B	Corothane 1 IronOx A HS
Termarust Technologies		Termarust 2200LV			TR 2100
Watson Coatings Inc.		Armor-Shield 8201			Armor-Shield AS8301
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:

- 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.
- The Sherwin Williams coating system is moisture cured. The entire can should be used at once to prevent reaction and gelling of the coating in the can.
- 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 - -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	Sikaflex 1a

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						
SURFACE PREPARATION						

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.
SURFACE PREPARATION SSPC SP-2 "Hand Tool Cleaning" or SP-3 "Power Tool Cleaning" or SP-11 Industrial						

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:

- These 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	PRIMER	SEAL COAT	STRIPE COAT	MIDCOAT	TOPCOAT
Cloverdale Paint		ClovaCorr 83183			ClovaCorr 83180
Termarust Technologies		Termarust 2200LV			TR 2100
Watson Coatings Inc.		Armor-Shield 8201			Armor-Shield AS8301
SURFACE PREPARATIONS SPC SP-6 "Commercial" blast, New Steel SP-10 Near White Blast					

Notes for use:

- The penetrating sealer shall be used to penetrate and seal rusted areas and lap joints that cannot be properly cleaned. This is a unique application and Manufacturer's instructions shall be followed
- These products shall be used only with compatible products from the same manufacturer.
- The surface to be coated shall meet SSPC- SP 12/NACE No. 5, NV-2 level immediately prior to coating.

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	PRIMER	SEAL COAT	STRIPE COAT	MIDCOAT	TOPCOAT
Sherwin Williams	Corothane I Galvapak 1K			Corothane 1 IronOx B	Corothane 1 IronOx A HS
SURFACE PREPARATION SSPC-SP 6/NACE No.3, Commercial Blast Cleaning for new steel, SSPC-SP 10/NACE No. 2, Near-white Blast Cleaning.					

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 or gloss.

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 SRF or SRD coatings should be specified.
- 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
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NON-REMOVABLE HANDRAIL SECTIONS						ZINC
SURFACE PREPARATION Surface preparation SSPC-SP 5/NACE No.1, White Metal Blast Cleaning						

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.
- As long as cleanliness 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 subsequent coat.

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.

STRUCTURE	PRIMER	SEAL COAT	STRIPE COAT	MIDCOAT	2nd MIDCOAT	TOPCOAT
For Future Use						
SURFACE PREPARATION						

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.

STRUCTURE	PRIMER	SEAL COAT	STRIPE COAT	MIDCOAT	2nd MIDCOAT	TOPCOAT
For Future Use						
SURFACE PREPARATION			SSPC SP-2 "Hand Tool Cleaning" or SP-3 "Power Tool Cleaning"			

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 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 the exposed surface against

PROVEN PRODUCTS	ACCEPTED PRODUCTS
	Zinga (1121)

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.

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.

CULVERT SYSTEMS

MISCELLANEOUS

PROVEN PRODUCTS	ACCEPTED PRODUCTS
Boss 2000	PVC Pipe (Flex-Lox) (533) Solflo single (724) Solflo Max (724) Double Zinc Atlantic (757) Solen HDPE Pipe (767) KorFlo (926) Ring-Tile (886) Perma-Loc (945) Ultra-Rib (944) ADS/Hancor N-12 Pipe (632) Hancor Sure-Lok HDPE (748)

FITTINGS AND END TREATMENTS

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

PLASTIC DRAINS

PROVEN PRODUCTS	ACCEPTED PRODUCTS
	Slotted Drain C.S.P. (231)

DE-ICING CHEMICALS

PROVEN PRODUCTS	ACCEPTED PRODUCTS
Ice-Stop (130) K-Mix (201) Freezgard System (550-4) Calcium Chloride Sodium Chloride Magnesium Chloride	CMA Sodium Formate Nu-Salt (153) *Salt

- **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.pwgsc.gc.ca/cgsb/prgsrv/stdsdev/stdsdev-e.html>

DUST PALLIATIVES

PROVEN PRODUCTS	ACCEPTED PRODUCTS
Magnesium Chloride Calcium Chloride Calcium Lignosulphonate Sodium Lignosulphonate	BA 65 (under evaluation, summer 2003) DC-40 (827)

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

General Chemical (328)

- Calcium Chloride 38%
- 77% Calcium Flake
- 94% Calcium Mini Pellets

ELECTRICAL EQUIPMENT – APL0106

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

Note: The following is a list of suppliers and their product(s) who have successfully been pre-accepted to supply the Ministry of Transportation and Infrastructure.

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
3	Flasher Unit	Electro Systems	TFF-12	n/a
4	Photocells	Precision Multiple Controls Inc.	869ON (105-285V)	n/a
5	Photocells Receptacles	American Electric	99000	n/a
6	Padlocks	Associated Lock	AS-HWY-1	n/a
7	Banner Hangers	Globe Foundry	BB100	n/a
8	End Mount Plumbizer	Econolite Canada	C00641P001 c/w Kit no. SE-3045	n/a
9	Illuminated Pedestrian Crosswalk Signs	Valid Manufacturing		n/a
10		Electromega		Apr/2006
11	Wire Sentry	Trans Canada Traffic Inc.		Apr/2011

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

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-09

PEDESTRIAN TUNNEL LUMINAIRES

NO.	PRODUCT	MANUFACTURER	MODEL NO.	APPROVAL DATE
20	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 Signlitter 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 Signlitter MoTH-V2FS17M1A1PSN4GRP c/w 5m of 14/3 SOW and Encapsulated Starting Aid	Nov-98
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NO.	PRODUCT	AIMING ANGLE	ARM LENGTH (MM)	APPLICATION NOTES	MANUFACTURER	MODEL NO.	APPR. DATE
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-SNVW250WMV00XD	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 Signlitter 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
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

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	Traffic Signal, Luminaire and Sign Poles	Nova Pole International		
		Valemont West Coast Engineering.		
		Valmont Industries		Jun-95
		Polecom Structures Ltd. (name changed from Standard Pole)		Nov 2011
		Thomas & Betts/ Millerbernd Manufacturing		Sept. 09
2	Frangible Bases	Pacific Mako	1730-003	May-94
		Patriot Sales Inc. (name changed)		March-09
		Globe Foundry		Sep-97
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	Safety Base Ltd.		n/a

	(Type 1 or 3 16" BCD)	Transpo Pole Safe		July 2009
6	Breakaway Sign Structures	Nova Pole International		Apr-95
		West Coast Engineering Ltd.		Apr-95
		H & H Welding Safety Base Ltd.		Apr-95 Sept 05

NO.	PRODUCT	MANUFACTURER	MODEL NO.	APPROVAL DATE
7	Barrier Stands	Nova Pole International		Apr-95
		Valemont 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		
		Valemont West Coast Engineering.		Jun-95
		Valmont Industries		Jan-97
9	Highmast Pole	Nova Pole International		Jan-97
		Valemont West Coast Engineering.		Jan-97
		Valmont Industries		Jan-97
		Millerbernd Manufact. (981) Accepted		Jan 07
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

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-Aug-96

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		
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SERVICE EQUIPMENT

NO.	PRODUCT	MANUFACTURER	MODEL NO.	APPROVAL DATE
1	30A-120/240 V, 1 Ø, Service Panels	Valid Manufacturing	HWYSP8	May-94
		West Coast Electric Ltd.		Jan-96
2	30A 120/240 V Single Phase, Metered Service Panel	Valid Manufacturing	HWYSMC8A	Dec 10
3	30A 120/240 V Single Phase, Service Panel	Valid Manufacturing	HWYSP12	Dec 10
4	100A-120/240 V, 1 Ø, Service/Distribution Panels	Valid Manufacturing	HWYSP16	May-94
		West Coast Electric Ltd		Jan-96
5	100A-120/240 V, 1 Ø Service Disconnect Panels	Valid Manufacturing	HWYSD	May-94
		West Coast Electric Ltd.		Jan-96
6	100A-120/208 V, 3 Ø, Service/Distribution Panels	Valid Manufacturing	HWYSP3	May-94
		West Coast Electric Ltd.		Jan-96
7	Pre-emption Panels	Valid Manufacturing		N/a
		West Coast Electric Ltd.		N/a
8	Telephone Demarcation Panels	Valid Manufacturing	HWYTDP	May-94
		West Coast Electric Ltd.		Jan-96
9	Distribution Kiosks	Sigma Technologies		Apr-93
		Electrotec Industries		Jan-02
		Valid Manufacturing		May-94
		West Coast Electric Ltd.		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	GEL189	Sep-94
		Globe Foundry		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
		Globe Foundry		Apr-00
		Canadian World Trading Inc.		Sep-97
7	Plumbizer and sign bracket	Greenlite Traffic	GEL379	May-95
		Globe Foundry		Apr-00
8	Flasher Luminaires	Greenlite Traffic	GEL525	Sep-94
9	Post top adaptors	Greenlite Traffic	GEL143	Sep-94
		Globe Foundry		Apr-00

NO.	PRODUCT	MANUFACTURER	MODEL NO.	APPROVAL DATE
10	Two-way spreaders (Tubular and T-Section) 18"	Greenlite Traffic	GEL410	Sep-94
		Globe Foundry		Apr-00
11	Three-way spreaders (Tubular and T-Section) 22"	Greenlite Traffic	GEL440	Sep-94
		Globe Foundry		Apr-00
12	Four-way spreaders (Tubular and T-Section) 22"	Greenlite Traffic	GEL460	Sep-94
		Globe Foundry		Apr-00
13	Small spacer	Greenlite Traffic	GEL197	Sep-94
		Globe Foundry		Apr-00
14	Large spacer	Greenlite Traffic	GEL198	Sep-94
		Globe Foundry		Apr-00
15	Finials	Greenlite Traffic	GEL133	Sep-94
		Globe Foundry		Apr-00
		Canadian World Tradind		Sep-97
16	Two-way sign mounting kit	Greenlite Traffic	GEL340	May-95
17	Span wire hanger and cable entrance	Greenlite Traffic	GEL360	Sep-94
18	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
19	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
20	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
21	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
22	Signal head (200 Ø) with no lens and no visor	McCain		Jun-96
		Eagle		Oct-98
		Econolite	EAIX-BC	May-93
23	Signal head (300 Ø) with no lens and no visor	McCain		Jun-96
		Eagle		Oct-98
		Econolite	TAIX-BC	May-93
24	Pedestrian heads - 1 section	McCain		Jun-96
		Econolite	7090-BC	May-93
		Fortran		Mar 2012
25	Pedestrian heads with visors 2 section	McCain		Jun-96
		Econolite	PED2-BC	May-93
		Eagle		Mar-99
		Fortran		Mar 2012
26	300mm Polycarbonate Signal Head (Red, Yellow, Green)	Siemens	SG1301C1	July 2011
		Fortran	P Series	Nov 2011
27	200mm Polycarbonate Signal Head (Red, Yellow, Green)	Siemens	SG1031C1	July 2011
		Fortran	P Series	Nov 2011
28	Backboards, Visors, and Lenses	Econolite	-	May-93
		Eagle		Oct-98
		Fortran	-	Jan-94
		McCain		Jun-96

NO.	PRODUCT	MANUFACTURER	MODEL NO.	APPROVAL DATE
28	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
29	Traffic Signal lamps	Phillips		Feb-94
		Osram-Sylvania		Mar-96
		Duro-Test		Feb-94
		GE Lighting		Mar-96
30	Audible Signals	Novax	DS102A-S124VDC	Nov-94
31	1 Pair (2 Conductor) No. 18 Shielded Cable	Beldon	9318	
32	2 Pair No. 18 Shielded Cable	Impulse	181801	Apr-00
33	3 Pair No. 18 Shielded Cable	Beldon	9773	Oct-00
		Alpha	6024C	Oct-00
		Impulse	181803	Oct-00
34	4 Pair No. 18 Shielded Cable	Beldon	9388	Apr-00
		Impulse	18104	Apr-00
35	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
36	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
37	200mm Red LED Display	Gelcore	D08RA2-A4	Aug-00
		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
38	300mm Red LED Display	Gelcore	D12RA4-A4	Aug-00
		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
39	200mm Yellow LED Display	Gelcore	D08YA2-4	Aug-00
		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

NO.	PRODUCT	MANUFACTURER	MODEL NO.	APPROVAL DATE
40	300mm Yellow LED Display	Gelcore	D12YA4-4	Aug-00
		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
41	200mm Green LED Display	Gelcore	D08GA2-4	Aug-00
		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
42	300mm Green LED Display	Gelcore	D12GA7-4	Aug-00
		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
43	300mm Sqr. Pedestrian Don't Walk LED Display	Gelcore	P09PAC-3S4	Aug-00
		Leotek Electronic Corp.		Sept 05
		Act One	TP-12WP-002	Aug-02
		Dialight	4306774001	Aug-00
44	300mm Sqr. Pedestrian Don't Walk Signal	Gelcore		Aug-00
		Leotek Electronic Corp		Sept 05
45	300 mm Bi-modal Green/Yellow Left Turn Arrow	Gelcore	D12YGA7-4	Aug-00
		Leotek Electronic Corp		Sept 05
		Precision Solar		Mar-02
		Dialight	4306730	Aug-00
46	Signal Bags	Trans Canada Traffic Ltd.	SignalSax	Dec-04
		ITS.	Signal shirts	Dec-04
47	Uninterruptible Power Supply	Alpha Technologies Corp.	FXM 1100	March-08
		Clary Corp	SP1000 SR.SN	Jan-05
		Trans Canada traffic	BM124M11	Dec-04
48	Countdown Pedestrian Signal	Gelcore	PSG-PFD2_01A PSC-121	June-05
		Tassinco		June-05
		Dialight	430-7773-001	June-05
49	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

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	Jan-04

			and cable	
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	Pedestrian Audible Signal	Novac or Traconex	APS-10	Jan-04
22	Mercury Relay Contactor	MDI or Durakool	SP-1130-120A	Jan-04
23	Flash Transfer Relay	Midtex	136—62T3A1	Jan-04
		AEMCO	136-4992	Jan-04
24	#14-6 Screw Lugs	Burndy	KPA-8C	Jan-04
25	120V Flash Control Relay	Potter & Brumfield	KRPA-11AG-120	Jan-04
26	Traffic Controller Serial Communication Cable	Cabco	TEC-1 through TEC-7 inclusive	Jan-04
27	Solid State Timer	ARTISAN	438 USA	Jan-04
28	K9-Relay 24VDC	Potter & Brumfield	R10-EIX4-V700	Jan-04
29	Fire Signal Controller	Novax Industries Inc.	ELA 515	Sept 05
30	Signal UPS Cabinet	Valid Manufacture	KDSA48-30-10385	Dec - 10

ELECTRONIC SIGNS

NO.	PRODUCT	MANUFACTURER	MODEL NO.	APPROVAL DATE
1	12" Amber LED Display Open/Closed Sign	Tassimco	LS-OCS2052-12	Tentative-January 2011
2	12" Amber LED Display Open/Closed Sign	Act One	ABM-12A-OP/CL.	Tentative-January 2011

VIDEO DETECTION PRODUCTS

NO.	PRODUCT	MANUFACTURER	MODEL NO.	APPROVAL DATE
1	Video Image Processor For Video Detection	Traficon Traficon Iteris	VIP 3.2 VIP3D.x	Jan-04
2	Video Detection Expansion Module	Traficon Traficon Iteris	2-I/O Extender 4-I/O Extender	Jan-04 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	Day / Night Network Camera with Auto Iris & Zoom Lens	Axis	Axis 221	July-05
2	Day / Night Network Camera with Zoom & Auto Focus	Axis	Axis Q1755	Jan-11
3	Heat / Blow 120V 105 Watt Pelco Enclosure	Pelco	EH5729-1	July-05
4	Window Defroster	Pelco	WD57-1 120 V	July-05
5	Thermal Insulation	Pelco	T157	July-05
6	Enclosure Mounting Arm	Pelco	EM-1900U	July-05
7	Power Supply	Sola	663-SCP30S15-DN	July-05
8	CDMA X1 Cellular Modem	Anydata or Airlink Comm	EMIII Dual Raven	July-05
9	Coaxial Cable	Various	LMR 400	July-05
10	Antenna	Max Rad	Various	July-05
11	Telephone Modem	US Robotics	USR5686E	July-05
12	Uninterruptible Power Supply	Alpha Techn	Micro 300	March 07

SOLAR PRODUCTS

NO.	PRODUCT	MANUFACTURER	MODEL NO.	APPROVAL DATE
1	Solar Flashing Beacon	Carmanah Technologies	R247C	Sept 05
		JSF Technologies	1400 – 24hr Flashing Beacon	Sept 05
2	Solar LED Pedestrian Cross Walk Flashers	Carmanah Technologies		Sept 05
		JSF Technologies		Sept 05

EPOXY PRODUCTS

ANCHORING

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

PROVEN PRODUCTS	ACCEPTED PRODUCTS
CIA Gel Epoxy System (545) HST200 (597) HS200 (597) JR200 Power-Fast (758) Chem-Stud (759)	High Tech Structural Gel (687) Hilti HIT RE500 (1067) Hilti HTE 50 (1067) Hilti HIT HY 150 Max (1067) Hilti HIT RE500 SD (1067) Simpson Strong Tie-Anchor Systems (1079)

CRACK INJECTION

PROVEN PRODUCTS	ACCEPTED PRODUCTS
BASF Concessive 1380 BASF Concessive 1446 Sikadur 31 HI MOD Gel Sikadur 33	Sho-bond #101 Pro-Poxy 50 – Unitex (1063) Pro-Poxy 100– Unitex (1063) Simpson Strong Tie – ETI-LV (1079) Simpson Strong Tie – ETI-GV (1079)

EPOXY GENERAL

PROVEN PRODUCTS	ACCEPTED PRODUCTS
Bonding Agent ST-433 (372) Bonding Agent ST-435 (372) Miton 514 (138) Sternflex 1 (362) Ulcan Hanner Cap (619)	Bonding Agent ST-432 (361) Everset Type II (358) Miton 223 (141) Miton 227 (143) Pro-Proxy 300 Fast – Unitex (609) Talygrout 100 (356) Pro-Poxy 200 – Unitex (1063) Pro-Poxy 204 – Unitex (1063) BASF – Concessive 1090 (438) Simpson Strong Tie-Anchor Systems (1079)

EROSION CONTROL SYSTEMS

BLANKETS

PROVEN PRODUCTS	ACCEPTED PRODUCTS
Bon Terra (Various) EcoAegis (Bonded Fiber) (731) Geocoir/Dekowe (487) Multimat 100Geogrid (226) North American Green(Various) Soil guard (Bonded Fibre Matrix System) (440)	EarthGuard (1143) A-Jax Block Georidge (848) Aqua Dams (333) Foreshore Revetment Mattress (373) Made to degrade (459) Xcel Temp/Perm (478) AGES Premium Silt Fence Supergro (843) MacMat N 10, & 20 (880 & 881) Gabion Mat (882) Western Excelsior ECB (890) SI GeosolutionsTRM (891) Excelsior Erosion Products – Excel, EStaple, CurlexI, CurlexII, CurlexIII, Recyclex, & AEC Straw single and Double Net, AEC Premier Straw/Coconut (1078) EcoMatrix (1078) Enkamat 7020 (1078) (not within the wetted perimeter) EcoAegis (1078) Coco Flex ET-FGM (1078) Flexterra (1078) Layfield East Coast Erosion Blankets (1117) Erosion Control Blankets (1152)–S32BD; S31; S32; C32BD; C32; SC32BD; SC32; PC42;PS 42; P42 Trim;

SILT FENCING

PROVEN PRODUCTS	ACCEPTED PRODUCTS
Beltech Silt Fence (489) Layfield WBSF (892) AGES Premium Silt Fence (904)	Layfield SF100 & SF124 (987) Beltech Silt Fence (489)

EROSION – GENERAL

PROVEN PRODUCTS	ACCEPTED PRODUCTS
Deltalok (791)	Trilock Erosion Control (686) Enviroberm (691) Modular Gabions (1028) Scour Stop (975) BMP Spring Berm (1128) Concrete Cloth (1131) Verdyol – HydroGold, Biotic Earth HGM, Biotic earth Black, Biotic Earth BFM (1152)

FASTENERS

GENERAL

PROVEN PRODUCTS	ACCEPTED PRODUCTS
Strapbinder (627)	

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.

GEOTEXTILES - WOVEN

PROVEN PRODUCTS	ACCEPTED PRODUCTS
) Geolon HP Series (883)	Antiwash Geojute Plus (690) Webtech (826) Ages HS (828) Checkmate Geosynthetics (905) Geotex Geosynthetics (979) Maccaferri MACTEX Geotextiles (1008) Layfield Geotextiles (897) Griffen Fentex Geotextile (1111) Skaps Geotextiles (1146)

GEOTEXTILES - NONWOVEN

PROVEN PRODUCTS	ACCEPTED PRODUCTS
	Antiwash Geojute Plus (690) Webtech (826) Ages HS (828) Checkmate Geosynthetics (905) Geotex Geosynthetics (979) CSE CE Non Woven (1006) Maccaferri MACTEX Geotextiles (1008) Layfield Geotextiles (897) Griffen Fentex Geotextile (1111) Skaps Geotextiles (1146)

CELLULAR CONFINEMENT SYSTEMS

PROVEN PRODUCTS	ACCEPTED PRODUCTS
	Geoweb (224)

ENVIRONMENTAL LINERS

PROVEN PRODUCTS	ACCEPTED PRODUCTS
Layfield Plastics 30mil PVC sheet	Bentofix (838) Coletanche Geomembrane (1126)

GEOGRIDS

Geogrids products applications vary with conditions and requirements.

PROVEN PRODUCTS	ACCEPTED PRODUCTS
Mirafi XTPWG Series (714) Multimat 100 Geogrid (226)	Maccaferri MacGrid EG20S/EG30S (813) Maccaferri MacGrid WG/KG Series (813) Carthage Mills FX Series(870) E'Grid (889)
Pitchmastic (Tensar) (662) Tensar Bx Series Tensar Ux Series 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)	Tenax TT Sieries (894) Mirafi AXEG Series (897) Combi Grid (929) Tenax MS 220/330 Series (689) Strata Geogrid Products (901) Paralink / Paragrid Checkmate BX and Ux Series (905) Secugrid (940) Nilex Triax Geogrid (719) Synteen SF Series Uniaxial/Biaxial Geogrids (719) Terrafix Biaxial Geogrids BX Series (1086) Griffen GBX Series Biaxial Geogrid (1111) Layfield Geogrids (987)

GEOGRIDS-PAVEMENTS

PROVEN PRODUCTS	ACCEPTED PRODUCTS
Nilex Glassgrid	MiraPave (994) PaveGrid FG Series (896) PaveGrid FGC Series (898) Checkmate Roadgrid (905) Huesker Ha Telit C 40/17 (1139)

GEOMEMBRANES

Note: This category is currently under revision

PROVEN PRODUCTS	ACCEPTED PRODUCTS
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GEODRAINS

PROVEN PRODUCTS	ACCEPTED PRODUCTS
ADS Advan edge/HDPE (633) Miradrain 6000 Miradrain 9000 (136) RED Pak (281)	Tendrain (688) Delta Drain LD Series (893) Drain Tube (1159) Nilex WD-15 with J-Drain 400 (1160) Nilex DN50-2 with J-Drain 300 (1160)

GEOCOMPOSITES

Note: This category is currently under revision

GEOFOAM

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

HAZARDOUS WASTE MANAGEMENT

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

LIGHTWEIGHT FILL MATERIAL

PROVEN PRODUCTS	ACCEPTED PRODUCTS
Geolite (711)	Plasti-Fab (799) Super Fill LW (925) Cematrix Cellular Concrete (1100) Gastado Cell-Crete (1114) Tephralite _ Light Vesicular Basalt Korolite EPS Geof foam (1165) Garibaldi Pumice (1177)

HIGHWAY SAFETY DEVICES

BREAKAWAY DEVICES

PROVEN PRODUCTS	ACCEPTED PRODUCTS
	Dent Sign Post Fuse Plate (993) (For use with breakaway sign supports) Dent Breakaway Bolt (966) Transpo Break Safe (1005)

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-09/09 "Cable Barrier".

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

CONCRETE BARRIERS – Specialty Applications

Note: See SS 941 for Concrete Barriers.

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

GLARE SCREENS

PROVEN PRODUCTS	ACCEPTED PRODUCTS
Glare-Gaard (519) Safe-hit (728) Carsonite (109)	

IMPACT ATTENUATORS

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.

PROVEN PRODUCTS	ACCEPTED PRODUCTS
Brakemaster 350 CAT – 350 Energite III Sand Barrels Fitch Sand Barrels Quad Guard Systems(1005) React 350 SCI100GM Universal TAU-II Quad Trend	Adiem 350 Traffix sand barrels Quad Guard Elite, LMC and Guard II (1005) Quest Impact Attenuator (1065) TRACC 984 TraFFix Compressor Attenuator (997) (Note: Steel Base fixed to pavement surface must be engineered) CrashGard Sand Barrels (1012)

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 through the Regional Traffic Engineer on a project specific application for specialty applications related to longer term construction work.

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

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 Highway Safety Section, Engineering Branch, Victoria, (Ed Miska (250) 387-7676), prior to using Glare Screens, Impact Attenuators, Cable Barrier, and Water Filled Barriers Products.

PLASTIC DRAINAGE PIPE

P.E.

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.

Reinforced HD Polyethylene

PROVEN PRODUCTS	ACCEPTED PRODUCTS
	Contech DuroMaxx Pipe (821)

P.V.C.

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.

Specialty Application

PROVEN PRODUCTS	ACCEPTED PRODUCTS
	Contech A2 Liner Pipe (821)

SHAPES, SPACERS & FITTINGS

PROVEN PRODUCTS	ACCEPTED PRODUCTS
RACI - Spacers (Insulators) (234) Ring-Tite (886)	ADS Polythene End Sections (634) Perma-Loc (945)

APPLICATIONS

PROVEN PRODUCTS	ACCEPTED PRODUCTS
Boss 2000 (377) Weholite (618) ACO Power Drain S100K (924)	ADS/Hancor N-12 Pipe (632) Hancor Sure-Lok HDPE (748) Royal Cobra Lock System (926) KorFlo (926) AGRU Pipes and Liners (207) Ultra-Rib (944) ConTech Duromax (821) ConTech A2 Liner Pipe (821)

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

Grace (943)
BASF - Master Builders (100)
Chryso (992)
Euclid (1010)
Sika (Canada) (1133)

FIELD ANTIGRAFFITTI

PROVEN PRODUCTS

Cappar, Capseal A50
Dow Corning, All Guard
Elsro #736
Sternson, Acrytite
Sikagard Color A50
GPA-200 SEI (853)

ACCEPTED PRODUCTS

Canyon-Tone (Conchem) (110)
Spray-Deck (462)

Note: the above products may be suitable for steel

ANCHORS

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.

MECHANICAL TYPE

PROVEN PRODUCTS

Hilti HSL (557)
Machtle HLN (558)
Redhead HL (559)
Spit 2X (560)

ACCEPTED PRODUCTS

Hilti HY Anchor (1067)
Hilti HDA Undercut Anchor (1067)
Hilti Kwik Bolt TZ expansion anchor (1067)
Hilti Kwik Bolt 3 expansion anchor (1067)
Simpson Strong Tie -Strong-Bolt 2 (1079)
Simpson Strong Tie - Wedge All (1079)

ADHESIVE TYPE

PROVEN PRODUCTS	ACCEPTED PRODUCTS
	Acrylic-Tie AT (901) Epoxy-Tie SET, ET, ETF (902) Vinylester Glass Capsule Adhesive VGC (903) Hilti HTE 50 (1067) Hilti HIT RE 500 SD (1067) Hilti HIT HY150 Max (1067) Simpson Strong - EDOT (1079) Simpson Strong - SET-XP (1079)

ANTI-SKID TREATMENTS

PROVEN PRODUCTS	ACCEPTED PRODUCTS
SRM Grip (472)	Durabak (816)

BONDING AGENT

PROVEN PRODUCTS	ACCEPTED PRODUCTS
Bonding Agent ST 433 Bonding Agent ST 435 (372) BASF Concessive 1090 Powerbond Pro-Bond Sikadur	Target Bonding Agent 935) Bonding Agent 432 (361) Everset Type II (358) Industrial Formulators Miton 514 (138) Starpatch Acrylic 900 (301) Sternson Strong Bond (Symons) Talygrout 100 (356) Target

CORROSION INHIBITORS

PROVEN PRODUCTS	ACCEPTED PRODUCTS
Cortec MCI 2005 Cortec MCI 2006 D.C.I. (Darex) (535)	MAPEI Mapefer 1K (1070)

CURING MEMBRANES

PROVEN PRODUCTS	ACCEPTED PRODUCTS
Elsro 702 BASF Sonneborn Kure-N-Seal (438) Vabar 300 (279)	Dayton Ritecure – Sternson (348) W.R. Meadows Webres – Websen Waterproof & Spec. Coating

GROUTS

PROVEN PRODUCTS	ACCEPTED PRODUCTS
Burke-2 (108)	Basalite Rehab Mix -(426)
Burke, Fast Patch 928 (126)	Dot Patch & Strong Bond (Symons) (580)
Flowcrete (703)	
Grout (Nonferrous) (127)	Everset Type II (358)
Grout (Standard 621) (128)	M-Bed Standard (369)
Miton 700 (144)	Basalite Microsil Anchor (424)
Miton 227 (141)	M-Bed Superflow (346)
Basalite Non Shrink (425)	MAPEI Planigrout 712 (1070)
Machine Base Grout (699)	MAPEI Planigrout 740 (1070)
Portland Expanding (708)	MAPEI Planigrout 755 (1070)
1118 Grout (702)	Hilti Precision Grout PG (1067)
Rapid Set Non Shrink (321)	Hilti Epoxy Grout EG (1067)
Starpatch Patch (313)	Hilti Multipurpose Grout MG (1067)
Starpatch Hard Top (314)	
Starpatch - Thin Set	
Starpatch Filling Mix (315)	
Talygrout 100 (356)	

PATCHING PRODUCTS

PROVEN PRODUCTS	ACCEPTED PRODUCTS
	BASF 10-60 Rapid Mortar (438)
	BASF Emaco S88 (438)
	BASF Emaco GP (438)
	BASF EMACO T430 (438)
	BASF Emaco S66 (438)
	BASF EMACO T415 (438)
	Basalite Dam Sac (421)
	Epoxy Overlay/Polymer Concrete (437)
	Fusion Crete (Reg Set) (123)
	Flexcrete (713)
	Five Star Highway Patch (194)
	Fusion Crete (Minute Set)
	BASF Gel Patch (712)
	MCI – 2038 (Cortec)
	MCI – 2039 (Cortec)
	Quasite(patching blend) (209)
	RT-15 (Master Builders) (444)
	RE-18 (Master Builders) (445)
	Starpatch Thin Coat (316)
	Sealcoat Elastic Plus (652)
	Starpatch Patch Mortar (313)
	Starpatch Hard Top Mortar (314)
	Starpatch Hard Top Mortar (314)
	Starpatch Skim-Coat (312)
	Starpatch Filling Mix (315)
	Sylcrete 10 min Concrete Mender (277)
	Thin Patch (Symons) (577)
	Tapecoat M860 Road Repair (380)
	Verticle Patch (Symons non-sag) (582)
	HD-50 (837)
	MG-Krete (937)
	V/O Patching and Repair Mortar (967)
Basalite Fast Patch (422)	
Basalite Rehab Mix -(426)	
Fast Set Patching Concrete (700)	
Fusion-Crete Crystals (638)	
Highway Patch	
Insta-Patch	
Rapid Set No Shrink Grout (323)	
Rapid Set Mortar Mix (320)	
Rapid Set Cement (321)	
Rapid Set Concrete Mix (322)	
Rapid Set DOT (467)	
BASF Set 45	
SC100W (701)	
SC100D (704)	
Basalite Traffic Patch (423)	
Traffic Patch Fine (Target) (706)	
Traffic Patch Course (705)	
Wunder-Plast Swiss System (180)	

Euclid Duraltop Gel (1010)
 Euclid Eucocrete (1010)
 Euclid Concrete – Top Supreme (1010)
 Euclid Eucospeed MP (1010)
 Euclid Thin-Top Supreme (1010)
 Euclid Veraspeed (1010)
 Euclid Veticcoat Supreme (1010)
 MAPEI Planitop 18 (1070)
 MAPEI Planitop 22 (1070)
 MAPEI Planitop XS (1070)
 MAPEI Mapcem 202 (1070)
 MAPEI Quickpatch (1070)

SEALANT

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

PROVEN PRODUCTS	ACCEPTED PRODUCTS
	CIM Membranes (112) Cemflex (658) Chemco System 646 (129) Clear seal (460) Code Blue (544) Dynasylan BH-N (381) BASF Enviroseal 40 (365) Masonry Guard(Weather-bos) (642) Miton 400 (147) Pena-Seal (455) Sealcoat Elastic (652) Sealoflex (659) Sealclear (660) Sealobond (661) Euclid Baracade Silane 40 (1010) MAPEI Mapelastc (1070)

SIDEWALK TOPPING

PROVEN PRODUCTS	ACCEPTED PRODUCTS
	Epoxy Overlay/Polymer Concrete (Steilacoom) (437) Starpatch Skim Coat Mortar (312) System 400 (443)

SPECIALTY PRODUCTS

PROVEN PRODUCTS	ACCEPTED PRODUCTS
Sacking Mix (707)	Dam Sac Rehab Mix (420) Ultimax (620) Voton (178)

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 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.

CONCRETE ARCHES

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

STEEL ARCHES AND PIPES

PROVEN PRODUCTS	ACCEPTED PRODUCTS
AIL Super-Cor Bolt-a-Plate (655) Armtec Mini-Span (843) Armtec Multi-Plate Super Span Armtec Bridge-Plate (821)	AIL Dur-A-Span (1036) Siderar Arsa MP 150 AND 152S(775) Armtec Tunnel Liner Plate (821) Armtec Strata CAT Coating (821) AIL Best Kote Structural Plate (1036)

BRIDGE ABUTMENTS and MSE RETAINING WALLS

PROVEN PRODUCTS	ACCEPTED PRODUCTS
Hilfiker Eureka Reinforced Soil (436) Hilfiker RSE Smooth Face (436) ISOGRID SSL MSE-Plus (629) (temporary restricted for use Reinforced Earth TerraClass (264) VSL Retained Earth	AIL Vista-A-Wall c/w Precast Facing (1036) unless approved by RPL Chairperson)

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. MSE walls with concrete facing with non-extensible reinforcement.

INTERLOCKING CONCRETE BLOCK RETAINING WALLS - (up to 5m in ht) with Geosynthetic Soil Reinforcement. Ministry is drafting a Standard Spec.

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 a manufacturers' legible identification for mould number and manufacturer.

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 prestressed 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 a nominal design strength of a min. 20 MPa., 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.

PROVEN PRODUCTS	ACCEPTED PRODUCTS
United Lock Block (074) <i>with geosynthetic reinforcement</i>	Redi-Rock (822) <i>with geosynthetic reinforcement</i>
	Octa Block (1163)

RETAINING WALLS - (up to 5m in Height)

PROVEN PRODUCTS	ACCEPTED PRODUCTS
Allan Block (324)	Versa-Lok Wall System
Standard Unit Keystone	Redi-Rock (822) <i>with geosynthetic reinforcement</i>
Evergreen Wall	Maccaferri Terramesh (836)
Gabions PVC Maccaferri (124)	Magnumstone (995)
Tensar Mesa Plateau System (719)	Modular Gabions (1028)
Stresswall (174) <i>Hollow panels not permitted</i>	Keystone - 1.33 Elite and Compac (931)
	Strata Slope Systems (901)
	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, 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)

PROVEN PRODUCTS	ACCEPTED PRODUCTS
Hilfiker Eureka Reinforced Soil (436)	Reinforced Earth GeoMega (264)
Hilfiker RSE Smooth Face (436)	Nilex Tensar Ares (719)
ISOGRID	Reinforced Earth TerraPlus (862)
SSL MSE Plus (629) (Restricted from use on projects - pending RPL Committee review)	Strata Slope System (901) System acceptance based on Strata's geosynthetic products
Reinforced Earth TerraClass (264)	KeySystem (931)
VSL Retained Earth	Criblock (942)
	Redi-Rock (822) <i>with geosynthetic reinforcement</i>
	Nilex Tensar SierraScape (719)
	Maccaferri Terrawall (1008)
	ALL Vista-A-Wall c/w Wire Facing (1036)
	Armtec Wire Mesh Wall Systems (949)
	Layfield Strengthen Soil Retaining Wall (987)
	Layfield Wire Mesh Wall (987)
	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>
	Landmark Retaining Wall System (1153)
Hilfiker Welded Wire (436)	

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: *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).

LANDSCAPING WALLS – (up to 3m in height)

PROVEN PRODUCTS	ACCEPTED PRODUCTS
	C-Loc Vinyl Plastic Sheeting (750)
	Yard Blocks (787)
	Macaferri Green Terramesh (867)
	Detalok (791)
	Strata Slope Systems (901)
	Envirolok (1032)

Note: Landscaping Walls are not intended to be supporting walls for the shoulder or travelling lane.

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.

PROVEN PRODUCTS	ACCEPTED PRODUCTS
Tensar Sierra Slope Retention System (719)	Detalok (791)
	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.

PROVEN PRODUCTS	ACCEPTED PRODUCTS
Tensar Sierra Slope Retention System (719)	Strata Slope System (901)

SLOPE ROCKFALL 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.

PROVEN PRODUCTS	ACCEPTED PRODUCTS
	TECCO Mesh (906)
	Trumer Omega Net (985)
	Trumer High Performance Netting (985)
	Maccaferri Rock Mesh - Drapery System (1043)

ROCK FALL CATCH FENCES

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

SALT STORAGE STRUCTURES

PROVEN PRODUCTS	ACCEPTED PRODUCTS
Colony Fabric Structures Barr Fabric Structures (831)	Fabric Shelter (788) Megadome / Superdome (with Fabrene type N705 fabric only) Norseman Portable Shelter (922) Diamond Fabric Shelter (938) Sprung Structures (1169)

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.

SOUND ABSORPTION WALLS

PROVEN PRODUCTS	ACCEPTED PRODUCTS
Whisper Wall (865)	Durisol Sound Absorption Noise Barrier (950) SoundSorb (1019)

SOUND REFLECTIVE WALLS

PROVEN PRODUCTS	ACCEPTED PRODUCTS
	Canus Natural Art Fencing (1049) FP Innovations (1149) Wood Sound Abatement wall based on submitted Drawing dated Feb. 07, 2012 expected Service life is about 30 years vs more with concrete materials.

RAILWAY CROSSINGS

FLANGEWAYS

PROVEN PRODUCTS	ACCEPTED PRODUCTS
HI-Rail PPI Rubber Interface Polycorp Railseal Interface	

SURFACES

PROVEN PRODUCTS	ACCEPTED PRODUCTS
HI-Rail (rubber) Omega (concrete) Rail-Way Inc.(concrete & rubber)	

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 only permitted when specified in special provisions or by Ministry.

PROVEN PRODUCTS	ACCEPTED PRODUCTS
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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 412.34.03 for Mechanical Coupler Splices)

ROADSIDE DEVELOPMENT PRODUCTS

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

HYDRO-SEEDING

HYDRO-MULCHES

PROVEN PRODUCTS	ACCEPTED PRODUCTS
Eco Aegis (731) Eco Fiber (731)	Hydrotech (732) HydraCX² Extreme Slope Matrix (719) (not complying with SS 757 and to be removed next update)
Spra-mulch Silva Fiber Soil Guard (440)	Ecofibre (1078)

TACKIFIERS

PROVEN PRODUCTS	ACCEPTED PRODUCTS
J-Tac M-Binder DS-Tack FX (764)	Earth Bond (664) EcoFibre Plus Tackifer (1078)

LANDSCAPING

PROVEN PRODUCTS	ACCEPTED PRODUCTS
Commercial Tree Ties Interlocking Concrete Pavers Lava Rock (284) Stamped Concrete Finish (Bowmanite) Weed Barrier Geo Textile	Driwater (725) Deeproot Barrier (468) Netlon Advanced Turf Trilock (686)

REST AREA IMPROVEMENT

PROVEN PRODUCTS	ACCEPTED PRODUCTS
<u>Composting Toilets</u> Clivus Multrum (733) Phoenix System (717)	
<u>Environmental Cleanup</u> BOE 505/BOE 510 (626)	
<u>Miscellaneous</u> Eco-Superwood (330)	Concrete Blocks (451)
<u>Picnic Tables</u> Dominion pre-cast (Terrazzo Finish) Leko precast (Terrazzo Finish)	Maintenance Free Benches & Picnic Tables (538)
<u>Waste Receptacle – Machinery</u> Rough Country Hide-A-Bag (Rollins) I BC Special Bear Proof Refuse/Recycling Container (45 and 90 gallon capacity) Hide-A-Bag (Rollins) I Mini Special Bear Proof Refuse/Recycling Container (32 and 64 gallon capacity)	

ROAD MATERIALS – TEMPORARY

PROVEN PRODUCTS	ACCEPTED PRODUCTS
	Terra Mats (262)

SOIL STABILIZATION

ROADWAY BASE

ASPHALT EMULSIONS

PROVEN 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

PROVEN PRODUCTS	ACCEPTED PRODUCTS
Calcium Lignosulphonate Georgia Pacific Sodium Lignosulphonate ITT Rayonier	

SUBGRADE BASE

PROVEN PRODUCTS	ACCEPTED PRODUCTS
	Base Seal (568) CBR Plus Con-Aid (415)

Consolid Blend (458)
 Conservex CX (with lime) (457)
 Descobond (070)
 Enduraseal (120)
 Elastomer Method SFPP2000 (624)
 Geol-Bind (071)
 ISS-2500 (549)
 Lime (073)
 Lite-Con
 Mountain Grout Soil Stabilizer (849)
 Paczyme (072)
 Soil-sement (510)
 Top Seal (568)
 Geosolid (928)
 InfraCrete (1081)

FOUNDATION BASE

EXPANDING INJECTION SOIL STABILIZERS

PROVEN PRODUCTS	ACCEPTED PRODUCTS
	Poly Flash (formerly Uretex) (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

PROVEN PRODUCTS	ACCEPTED PRODUCTS
	Chain Link Fence Footing (Ericsson Manufacturing)

STORMWATER and DRAINAGE MANAGEMENT

PROVEN PRODUCTS	ACCEPTED PRODUCTS
Ring-Tite (886)	StormFilter (819)

Perma-Loc (945)
Ultra-Rib (944)

Interceptor A67 (825)
Stormtech Chambers (845)
EMCO Raintank Systems (852)
Enviro Liner 6000 (910)
Kor Flow (926)
Vortechs (1044)
Aco Drain Systems (1004)
Atlantis (1084)
Hydro International Downstream Defender (1101)
Contech Construction - CDS Technologies (1107)
Langley Group Stormsceptor (1120)

TIMBER

GLUE LAMINATE

Any product which meets the requirements of the Ministry of Transportation and Infrastructure Standard Specifications for Highway Construction Section 905 – Glued Laminated, & 906 –Round Timber Piles, qualifies under this section.

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

PROVEN PRODUCTS	ACCEPTED PRODUCTS
Sigma Technologies SMG (Barrier Side Mount) Sigma Technologies TM1 (Barrier Top Mount) Sigma Technologies TM2 (Upgradeable Top Mount) Harding Smartstud Wayfarer J.S.Foster PF-8 (Post Mount)_ SunBeacon SB104 (Barrier Top Mount) JSF Active Barrier	J.S. Foster PD-5 (Post Mount) HIL-Tech LEDline (Barrier Top Mount) Item Miracle MS200 Item Miracle MS100

ILLUMINATING LEDS DELINEATION

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

STATIC ROAD EDGE DELINEATION

PROVEN PRODUCTS	ACCEPTED PRODUCTS
4" Flexible Marker Posts (441) Carsonite (109)	Polytubes Highway Post (899) Ridan Composite Marker (960) Steel Flex (1052)

REFLECTORS

BARRIER MOUNTED REFLECTORS

PROVEN PRODUCTS	ACCEPTED PRODUCTS
Astro Optic B1 (235) Stimsonite 965 Stimsonite 960 Swareflex 3350-Glass bead (715) Swareflex 3351-Glass bead (715) BAM Flexible Rayolite 2001 (154) Rayolite 2002 (154) Rayolite 2003 (154) Rayolite G-1 Way (154) Rayolite G-2 Way (154) 3M Scotchlite Linear Delineation System (851)	Astro Optics CM1 (104) Davidson PCBM T12 (998) Item IMarker (701) Artuk FT-2 (895) Monarch Reflective Device (1103) (only W beam)

SURFACE REFLECTORS

~~PLOWABLE~~ (no longer used)

RAISED

PROVEN PRODUCTS	ACCEPTED PRODUCTS
Stimsonite 911 (1066) Stimsonite 88 (1066) 3M 290 series Rayolite 8700 series Rayolite All Acrylic series Rayolite AA ARC-II series Rayolite 2002 series	Stimsonite 948 (1066) Stimsonite 953 (1066) Apex 921 AR Item IMarker 702 80/C80 Reflector (999)

MISCELLANEOUS

PROVEN PRODUCTS	ACCEPTED PRODUCTS
Lifeguard Chennelizer (669) Barrier Stand (750) Portable Changeable message signs (863)	Traf-Fix Flags (291) Traf-Fix Stand (292) Traf-Fix Signs (293) Traffic Control Products (542) Superwood (330) Super bright roll-up signs (663) Versa Bump (319) Qwick Kurb (951)

TRAFFIC BARRIERS

CONCRETE BARRIER

Any 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

STEEL TRAFFIC BARRIERS & 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.

WATER FILLED

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

TRAFFIC SIGN

BASES

CONCRETE SINGLE POST SIGN BASES

ACCEPTED PRODUCTS

Ericsson (523)

Ericsson Sign base weights must be close to design requirements.

In complying with Drawing SP635-3.6.3, 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

PROVEN PRODUCTS	ACCEPTED PRODUCTS
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Quickfix Sign Base QF 001

SkiRil Sign Breakout- Flush Mounted Breakaway Base (Oct 2005)

ACCEPTED PRODUCTS

Kalifix (900) (note: contact HQ Traffic for trial use)

ALTERNATE BACKFILL FOR CONCRETE SINGLE POST SIGN BASES

PROVEN PRODUCTS	ACCEPTED PRODUCTS
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ACCEPTED PRODUCTS

Chemque Q-Set 250 (1110)

BMK Polecrete (989)

ALTERNATE SINGLE SIGN BASE ATTACHMENT

ACCEPTED PRODUCTS	TRIAL PRODUCTS
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TRIAL PRODUCTS

CB Sign System (1177) confirmation for trial with MoT prior to application

REFLECTIVE SHEETING for SIGNAGE

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

ACCEPTED PRODUCTS	
Avery Dennison Products	3 M Products (1077)

TRAFFIC MARKING MATERIALS

GLASS BEADS

Glass bead product must meet the requirements of AASHTO M 247-11 with a minimum roundness value of 75% 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	
Potters Normal, Ultra 1.9 and Visi Bead (1145)	

CERAMIC BEADS

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

TEMPORARY TRAFFIC MARKING

ACCEPTED PRODUCTS	
Yodock Barrier System (341)	
3M - Removable Pavement Marking Tape (410)	3M - Wet Night Removable Marking Tape (411)
	3M - Removable Blackout Pavement Mask (412)
	Durable pavement. marking Tape Ss. 1000 (413)

DURABLE TRAFFIC MARKING

EPOXY

ACCEPTED PRODUCTS	
Epoplex LS50, LS70 and LS90 (918)	Epoplex Glowmarc 50 (920) and 70 and 90 (921)
HPS-4 (1137)	

THERMOPLASTIC

ACCEPTED PRODUCTS	
Interprovincial Traffic Services Can 100 (White)	Swarcotherm Hydro White (947)
Lafrentz System 300 (1041)-0320 & 0333 (White)	Swerdna 31-Series (1072)
Lafrentz System 300 (1041)-0358 & 0359 (Yellow)	Ennis Thermoplastic (1030)
	3M All Weather Thermo - Type 1, Type 2, and AWT with intermix Elements (1077)

METHYL METHACRYLATE (SPLATTER LINE)

ACCEPTED PRODUCTS	
HPS-7 (1137) (note: splatter line)	Pathfinder - Lafrentz (1017) (note: splatter line)

METHYL METHACRYLATE (CONTINUOUS LINE)

ACCEPTED PRODUCTS	PRODUCTS
HPS-6 (1137) (note: continuous line)	Lafrentz System 400 - (1017) (note: continuous line)
Swerdna -PLR FP2K Cold Plastic (1073)	

WET NIGHT HIGH VISIBILITY STRIPING SYSTEMS

Certain Striping Systems have surface profile characteristics with standard glass bead for enhanced reflectivity to meet ASTM 2176 continuous wet night and;
Other Systems have a flat profile characteristic with 3M All Weather Elements for enhanced reflectivity to meet ASTM 2176 continuous wet night and ASTM 2177 wet recovery.

Potter's Glass Beads give desired wet night reflectivity characteristics of ASTM 2176 continuous wet night when used in conjunction with the proper surface profile of a durable marking line.

3M All Weather Elements give desired wet night reflectivity characteristics of ASTM 2176 continuous wet night and ASTM 2177 wet recovery when used in conjunction with the proper surface profile of a durable marking line.

Special Provisions specify the:

- durable pavement marking material requirement;
- line type for desired striping application for line reflectivity; and
- surface and/or sub-surface profile requirement for the durable wet night high visibility striping system.

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

ACCEPTED PRODUCTS Note: Continuous Line - Thermoplastic	ACCEPTED PRODUCTS Note: Splatter or Dotted line - Thermoplastic
Rainline Profile Line (666)	Sno Pro Profile (Rumble Strip) (LaFrentz) (1017)
3M All Weather Thermo/Intermix Elements (1077)	
Sno Pro Thermo 0320 Profile (Gear and Diamond) (LaFrentz) (1017)	

ACCEPTED PRODUCTS Note: Continuous line - MMA	ACCEPTED PRODUCTS Note: splatter or dotted line - MMA
HPS-6 Profile Line (1137)	Pathfinder – LaFrentz (1017)
PolyCarb-Mark 55.4 (Petersen)	HPS-7 (1137)
	Swerdna - Drop On Line and Dot Flex (1071)

SPECIALTY TRAFFIC MARKING APPLICATIONS

ACCEPTED PRODUCTS Cold Plastic	
Ennis Flame Tape (1030)	DuraTherm (1061)
Flint Trading - Hot Tape (1069)	PreMark – Vizigrip (1080)
Ride-A-Way (1061)	StreetPrint XD (1091)

TRAFFIC MARKING PAINT

NOTE: Federal Environmental Regulations are being legislated to limit volatile organic compounds in paints and coatings coming into 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.

Colour requirements for white and yellow traffic marking materials are specified and governed in the Ministry's Pavement Marking Contracts. The colours of Ministry pavement markings are US Federal Specification 595b white 17886 and 595b yellow 33538.

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			
General Paint	No	78-741	395	2007	
General Paint	No	78-742	381	2007	
Ibis Products	No	40-4948		2002	
Mills Paint	No	EX-004		2002	
Cloverdale Paint	No	79-424		2002	
TMT Pathway	No	HVS101		2006	

YELLOW TRAFFIC PAINT (ALKYD)

Supplier	Contains Lead Pigment	Formulation	VOC g/l	Year Accepted	Last Year Used
Standard Yellow		78-161			
Ennis Paint	No	991071	416	2007	
General Paint	No	78-161		1991	Manufacturer reviewing
General Paint	No	78-967		1999	
General Paint	No	78-562		2006	
Ibis Products	No	40-4949		2002	
Ibis Products	No	T-40-4973		2003	

WHITE TRAFFIC PAINT (WATER BASED)

Supplier	Contains Lead Pigment	Formulation	VOC g/l	Year Accepted	Year Last Used
Ennis Paint	No	991062	102	2007	
Ennis Paint	No	991066	90	2007	
General Paint	No	78-916		1999	
General Paint	No	78-034		2000	
General Paint	No	78-192		2000	
General Paint	No	78-210		2002	
General Paint	No	78-211		2002	
General Paint	No	78-197	115	2007	
General Paint	No	78-792	74	2007	
Ibis Products	No	44-4956		2002	
Ibis Products	No	44-4958		2002	
Ibis Products	No	44-4960		2002	
Ibis Products	No	44-4962		2002	
Ibis Products	No	44-5010		2003	

LaFrentz Road Marking	No	0459SLB01	80	2007
Mills Paint	No	EX-006		2002
Mills Paint	No	EX-007		2002
Cloverdale Paint	No	79-426		2002

YELLOW TRAFFIC PAINT (WATER BASED)

Supplier	Contains Lead Pigment	Formulation	VOC g/l	Year First Approved	Last Year Used
Ibis Products	No	44-4955		2002	
Ibis Products	No	44-4959		2002	
Ibis Products	No	44-4963		2002	

URETHANE INJECTION CRACK SEALERS

PROVEN 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.