

**DEPARTMENT OF TRANSPORTATION, INFRASTRUCTURE AND ENERGY
Province of Prince Edward Island**

**TENDER FORM AND AGREEMENT
Revision 0**

THIS AGREEMENT made by and between, herein called the Contractor, the Party of the First Part and The Government of Prince Edward Island as represented by the Honourable Paula J. Biggar, herein called the Minister, the Party of the Second Part.

WITNESS, AS FOLLOWS:

1. Definitions

The definition of terms used in this Tender Form and Agreement shall conform in all respects to the definition of terms contained in the document entitled "General Provisions and Contract Specifications for Highway Construction," published by the Department of Transportation, Infrastructure and Energy of the Province of Prince Edward Island as amended on the date of closing of Tenders pursuant to this Agreement.

2. General Covenant

The Contractor hereby covenants and agrees with the Minister as herein provided in connection with the following work, namely:

Trans Canada Highway Extension – 2019
District 16

For a distance of 7.6 km

The contract commences approximately 2 km east of the Colville Road intersection and proceeds easterly for approximately 7.6 km up to and including the North River Roundabout along the new alignment.

This work includes: cold planing, placing granular A, placing asphalt base A (130mm), placing asphalt seal and all other work necessary to complete the contract.

TENDER CLOSES:

2:00 p.m., Tuesday, February 12, 2019

11 Kent Street, 3rd Floor Jones Building, Charlottetown, PE

3. No Implied Contract

It is hereby understood and agreed between the parties hereto that no implied Contract of any kind whatsoever, by, or on behalf, of the Minister shall arise or be implied from anything contained in this Contract, or from any position or situation of the parties at any time, and that this Contract made by the Minister is, and shall be, the only Contract upon which any rights against the Minister are to be founded.

4. How Party of the First Part is Read

Whenever this Contract is entered into by more than one party or parties of the first part, the word "Contractor" shall be read "Contractors," and pronouns in the Contract referring to the Contractors shall be read as plural and whenever a corporation is the Party of the First Part, the said pronouns shall be read accordingly.

5. Consideration of Clauses as Covenants

Wherever it is stipulated that anything shall be done or performed by either of the Parties hereto, it shall have the same effect and be constructed as if such Party had entered into a covenant with the other Party to do or perform the same, and as if such covenant had been expressly made on the part of the Contractor, not only on the Contractor's own behalf, but also on the behalf of the Contractor's legal representative, successors or assigns; and as if any such covenant on the part of the Minister has been made on behalf of the Minister, and the Minister's successors in office.

6. Contractors Submission Respecting the Agreement

The Contractor shall, as part of the Contractor's submission respecting this Contract, complete the attached Schedule B, Identification of Principles; Schedule C, Schedule of Tendered Unit Prices; Schedule D, Schedule of Equipment to be used on the work; and Schedule E, Schedule of Sub-Contractors.

The Contract including all appended schedules shall be completed in complete conformity with the instructions to bidders contained in the document entitled "General Provisions and Contract Specification for Highway Construction".

In presenting the Contractor's submission for consideration by the Minister, the Contractor understands that until, and unless, the Contract is endorsed by the Minister, no Contract between the parties shall exist and the Minister shall not be bound to endorse any Contract.

7. Performance by Contractor

The Contractor, at the Contractor's own expense, shall, except as herein otherwise specifically provided, furnish and provide all and every kind of labour and superintendence, services, tools, implements, machinery, plant materials, articles and whatsoever is necessary for the due execution of the work. The Contractor shall fully construct and erect the work in the most thorough, professional and substantial manner, in every respect to the satisfaction and approval of the Engineer. The Contractor shall complete the work within the time specified herein and deliver it to the Minister in the manner and upon the terms and conditions of the Contract.

8. Bid and Performance Security

The Contractor hereby and herewith deposits with and delivers to the Minister, as security of the due fulfillment of the Contract, one of the following, which shall remain in effect for a minimum of 30 days after tender closing:

- a) a certified cheque in the amount stipulated in Schedule A - Schedule of Special Provisions

OR

- b) a bank draft in the amount stipulated in Schedule A - Schedule of Special Provisions

OR

- c) a bid format irrevocable standby letter of credit on a government approved form in the amount stipulated in Schedule A - Schedule of Special Provisions

OR

- d) a bid bond in the amount stipulated in Schedule A - Schedule of Special Provisions excluding HST. The bond shall be from a surety company authorized to carry on business in Canada guaranteeing to supply a performance bond equal to 50% of the Contract value, excluding HST and a labour and material bond equal to 25% of the Contract value

Performance security must be filed with the Department before work on the project commences. This security shall be held and retained by the Minister for the due and faithful performance, observance and fulfilment by the Contractor of all the covenants, provisos, agreements, conditions and reservations in this Contract contained on the part of the Contractors to be observed, performed and complied with shall be in the form of:

- e) a certified cheque in the minimum amount of ten percent (10%) of the Contract value, excluding HST, which shall be retained until the warranty period (one (1) year after substantial completion) has elapsed.

OR

- f) a bank draft in the minimum amount of ten percent (10%) of the Contract value, excluding HST, which shall be retained until the warranty period (one (1) year substantial completion) has elapsed.

OR

- g) a performance format irrevocable standby letter of credit on a government approved form in the minimum amount of ten percent (10%) of the Contract value, excluding HST, which shall be retained until the warranty period (one (1) year after substantial completion) has elapsed.

OR

8. Bid and Performance Security (continued)

- h) a performance bond equal to 50% of the Contract value, excluding HST and a labour and materials bond equal to 25% of the Contract value, excluding HST both of which shall be retained until the warranty period (one (1) year after substantial completion) has elapsed.

All performance security which has an expiry date which precedes the end of warranty date must be renewed prior to the time that the security would expire. The bidder will forfeit security to the Minister if the bidder fails to enter into or carry out the Contract when called upon to do so.

It is understood and agreed that the Contractor assumes risk and must bear any loss in respect to the performance security as aforesaid, occasioned by the failure or insolvency of the banks on which any cheque was drawn or in which any deposit was made in connection with the security aforesaid.

If at any time hereafter the said Contractor should make default under the said Contract, or if the Minister acting under the powers reserved in the said Contract shall determine that the said works, or any portion thereof remaining to be done, should be taken out of the hands of the Contractor and be completed in any manner or way whatsoever than by the Contractor, or if the Contractor refuses or neglects to pay for work done or materials supplied by any person in connection with the said work, the Minister may, in either case dispose of said security for the carrying out of the construction and completion of the work of the Contract or for paying any salaries or wages for work done, or any accounts for materials supplied for the said works that may be left unpaid by the said Contractor.

In the event of any breach, default or non-performance being made or suffered by the Contractor in or in respect of any of the terms and conditions, covenants, provisions, agreements, or restrictions herein contained, which on the part of the said Contractor should be observed, performed or complied with, the said security so delivered to or deposited with the Minister or by the Minister received in respect thereof, shall by the Contractor, be forfeited absolutely to the Minister.

Upon the due and faithful performance, observance and fulfilment by the Contractor of all the terms, provisions, covenants, agreements, conditions, reservations, hereinbefore contained, on the part of the Contractor to be observed, performed and complied with, the Minister shall surrender the performance security.

9. Minister Covenants to Pay

In consideration of the faithful performance by the Contractor of all and singular covenants, agreements and provisions of the Contract, the Minister hereby covenants and agrees with the Contractor that, on the full completion by the Contractor of all the work as specified in the Contract, within the time specified and limited for the final completion thereof, and to the entire satisfaction of the Engineer to be evidenced by the certificate of the Engineer in writing, the said Minister will well and truly pay, or cause to be paid, to the said Contractor the amount of the Contract price, representing the actual quantities in the several items in the Schedule of Prices, identified as Schedule C to this Contract, at the unit prices or lump sum prices quoted by the Contractor. This amount paid to the Contractor as above, shall include all and every kind of work, labour, superintendence, services, tools, implements, machinery, plant materials, articles and things whatsoever necessary for the full execution and completion of the work to the entire satisfaction of the Engineer.

10. Final Payment

It is hereby agreed by the parties hereto that the payment of the final amount due under the Contract, and the adjustment and payment of any bills that may be rendered for work done, in accordance with any alteration in or addition to the same, shall release the Minister from any and all claims or liability on account of work performed under the said Contract or any alteration in or addition to the same.

11. No Waiver

It is hereby agreed that no condoning, excusing, or overlooking by the Minister, or any person acting on the Minister's behalf on previous occasions of breaches or defaults similar to that for which any action is taken or power is exercised, or forfeiture is claimed or enforced against the Contractor, shall be taken as a waiver of any provisions of the Contract, or as defeating, affecting or prejudicing in any way the right of the Minister under the Contract.

12. Components of the Contract

Any and all plans or drawings prepared by the Department, the document titled "General Provisions and Contract Specifications for Highway Construction", the advertisement, the Tender Form and Agreement together with Schedule A, Schedule of Special Provisions; Schedule B, Identification of Principals; Schedule C, Schedule of Tendered Unit Prices; Schedule D, Schedule of Equipment; and Schedule E, Schedule of Sub-Contractors, as well as any addenda which may be issued by the Department pursuant to this Contract shall hereby be a part of this Contract as fully and to the same effect as if the same had been set forth at length in the body of the Contract.

13. Completion of Work

The Contractor agrees to complete the work on, or before **October 11, 2019**.

14. FOIPP Clause

1. By submitting your bid, you agree to disclosure of the information supplied, subject to the provisions of the Freedom of Information and Protection of Privacy Act (FOIPP).
2. Anything submitted in your bid that you consider to be "confidential information" because of its proprietary nature should be marked as "confidential" and will be subject to appropriate consideration under the Freedom of Information and Protection of Privacy Act.
3. During the delivery and installation of goods and/or services, you may have access to confidential or personal information. Should this occur, you must ensure that such information is not released to any third party or unauthorized individual.
4. Any information provided on this Contract may be subject to release under the Freedom of Information and Protection of Privacy Act. You will be consulted prior to the release of any information.

IN WITNESS WHEREOF the parties hereto have hereby caused these presents to be signed and sealed on the dates stated.

SIGNED, SEALED AND DELIVERED
by the Contractor on the [] day
of [], 20[].

SIGNED, SEALED AND DELIVERED
by the Minister on the [] day
of [], 20[].

.....
CONTRACTOR

.....
MINISTER

In the presence of:

In the presence of:

.....

.....

**SCHEDULE A
SCHEDULE OF SPECIAL PROVISIONS**

1) INSTRUCTIONS TO BIDDERS

The stipulated bid security amount shall be \$750,000.00. Upon award, the successful Contractor shall replace the Bid Security with the Performance Security.

A mandatory preconstruction meeting between the successful Contractor and the Department shall be held at the Jones Building in advance of construction start-up.

The 2019 PEITIE General Provisions and Contract Specifications for Highway Construction shall apply to this contract. This shall be provided during the tender period.

2) SECTION 102.13 - SCHEDULING OF THE WORK

There shall be no limitations on the number of working days for this contract. Nevertheless the work shall be completed by October 11, 2019.

Regular job site meetings will be held to discuss job progress, environmental concerns, safety, traffic flow etc. The Contractor shall make available for this meeting a representative with the authority to act for the Contractor.

Other utility crews and/or other contractors (Aliant, Maritime Electric, earth contractor, bridge contractor, etc.) will be carrying out work on site at various stages of the project. The Contractor shall coordinate their work schedules with all these crews as no additional compensation will be provided for any delays.

Proposed completion dates for structures are as follows:

Cornwall Road Interchange – 2018

Linwood Arch - 2018

Clyde River Bridge – August 14, 2019

Bannockburn Road Overpass – September 27, 2019

Baltic Road Arch – June 14, 2019

Clyde River Interchange – August 09, 2019

PEITIE shall not be responsible for any costs incurred as a result of any delays in the completion schedules of the structures listed above.

Contractors shall note that there will be earthwork to be completed in the 2019 construction season after the structures are complete to bring the embankments in the vicinity of structures to subgrade.

3) SECTION 104.17 - ENVIRONMENTAL PROTECTION

The successful contractor shall be responsible for being in compliance with the EPP for this project while working on the construction site.

4) SECTION 207 – GRANULAR BASE

(Item 20701 – Granular Base: A)

This material shall be placed on three separate sections 1) from the Cornwall Road to the east abutment of the Clyde River Bridge (Station 5+675 to Station 2+575) 35,000 tonne, access to this section will be provided from the Cornwall Road only. 2) from Bannockburn Road to the west abutment of the Clyde River bridge (Station 1+610 to Station 2+440) 8,500 tonne, access will be provided off of the Bannockburn Road, and 3) from the start of the project (New Haven end) to the Bannockburn Road (Station 0+000 to Station 1+560) 25,000 tonne access will be provided from the existing TCH at the New Haven end to the New Alignment at Station 0+600 approximately. Material may also be placed on the new access into the Terry Fox Sports Complex. All open hauls should be calculated to the mid points of each of these sections. Access to section 3 will be restricted until the completion of the Baltic Road arch.

5) SECTION 211 – SHOULDER MATERIAL

(Item 21101 – Shoulder Material: A)

This material shall be placed on the entire length of the project (Station 0+000 to Station 7+570) and any other areas adjacent to the work where the project managers deems necessary.

6) SECTION 501 - ASPHALT CEMENT

(Item 50101 - Asphalt Cement)

Contractors shall note that for bidding purposes an artificial rack price of \$900 per tonne (without anti-strip) shall replace the Government's posted Monthly Average Asphalt Binder Rack Price table for this contract. The artificial rack price of \$900 per tonne (without anti-strip) shall be used as the price index when calculating the liquid asphalt cement price adjustment.

7) SECTION 501 - ASPHALT CEMENT

(Item 50109 - Surcharge for Polymer Liquid Asphalt)

Performance Graded Asphalt Cement (PGAC) on this contract shall comply with AASHTO M332 for the surface mix and shall be graded as PG 58-28H. Additionally the PGAC shall meet the elastic recovery requirements detailed in Appendix X1 of AASHTO M332. Note, when ordering the PGAC to include reference to the specification, grade with designation and the appendix (e.g., M332, PG 58-28H, Appendix X1).

Additional costs to the contractor for the purchase, haul, storage, and use of this product in lieu of 58-28 will be paid for under Item 50109 - Surcharge for Polymer Liquid Asphalt. No additional compensation shall be provided.

8) SECTION 603 – HOT MIX ASPHALTIC CONCRETE

(Item 60301 - Asphalt Base: A)

Asphalt base placement on the new entrance into the Terry Fox Sports Complex and the Clyde River Interchange roundabouts are expected to take place in September and shall be coordinated with the earth contractor who will be constructing the roadbed for this project with material removed from the existing highway in Clyde River. The first lift of asphalt base shall be placed and the remaining lift of base and the seal shall be completed once all concrete curb work is done by others. Placement of A mix at other locations on the project shall depend upon the completion of structures by others. Any delays caused by these completion dates are part of the work and no additional compensation shall be provided because of their work.

9) **SECTION 603 – HOT MIX ASPHALTIC CONCRETE**
(Item 60350 – Asphalt Seal: B)

Asphalt seal C may be used in lieu of asphalt seal B. This product will be placed at the North River Roundabout and along the existing TCH (future Main Street) for a distance of approximately 500 metres and at the new access into the Terry Fox Sports Complex. It will also be placed at the following locations in two lifts: Cornwall Road overpass, Bannockburn Road overpass, Clyde River Bridge, and the Clyde River interchange (including both roundabouts). It may also be placed at the west end of the project.

10) **SECTION 610 - HMA DRIVEWAY MIX**
(Item 61003 - HMA Driveway Mix)

This item will be used at various locations adjacent to the work including but not limited to the Baltic Road, the existing TCH, and other locations as required.

11) **SECTION 712 - COLD PLANE, STOCKPILE AND REPLACE RAP AS SHOULDER MATERIAL**
(Item 71201 - RAP: Shoulder Material)

This cold planing (50mm) will take place at the North River roundabout and along the existing TCH (future Main Street). It may include work along the York Point Road and the Warren Grove Road.

The transportation of the RAP to the temporary stockpile and from the temporary stockpile to the site (shoulders) shall be a closed haul.

Once placement of the shoulder material is complete, the excess material (RAP) will be hauled to a location determined by the Department and stockpiled. The Contractor shall be required to load, transport, screen, and stockpile the excess RAP from the temporary stockpile onto the trucks and deliver to the designated site with no additional compensation being provided.

The transportation of excess material from the temporary stockpile to any stockpile sites determined by the Department shall be an open haul, and open haul rates shall apply. A price adjustment shall apply based on the actual haul distance.

12) **SECTION 716 - COLD PLANE, STOCKPILE**
(Item 71601 - Cold Plane and Stockpile)

This cold planing (full depth removal) will take place at the Clyde River end of the project on the existing TCH.

For this section, the RAP material shall be hauled to a location determined by the Department and stockpiled. The cold planing of asphaltic concrete, shall be paid for at the unit bid price per square metre and this shall be full compensation for cold planing, loading, transporting, stockpiling, equipment, tools, labour, and incidentals necessary to complete the work.

Open haul rates shall apply to this item. RAP shall be hauled to the Brackley Point Road Depot. The contractor shall be compensated at the applicable km rate for this haul, no additional compensation shall be provided for any additional work to complete this haul.

13) SECTION 907 - VEHICLE CONFIGURATIONS AND RESTRICTIONS

The SADT at the North River end shall be understood to be 31,372.

The SADT at the Clyde River end shall be understood to be 9,814.

14) SECTION 1300 – SUPPLEMENTAL SPECIFICATIONS

(Item 138174 – Water Proofing Bridge Deck)

This work is to be completed before placement of the asphalt seal at the following locations on the project: Cornwall Road overpass 240m²: Clyde River Bridge 1800m²: Bannockburn Road overpass 540m² and the Clyde River interchange overpass 530m².

The unit price bid for the above listed item shall be full compensation for the provision of all labour, materials, and equipment required to supply and install waterproofing over the entire area of the new bridge deck, including up the vertical face of both curbs equal to the height of asphalt in contact with the curb. The material shall be WR Meadows "Sealtight Mel-Dek" or approved equivalent, including all incidentals required as specified by the manufacturer.

This item shall also include all costs associated with the supply of all labour, materials, and equipment required to clean the exposed concrete deck as per manufacturer recommendations prior to waterproofing placement.

The Contractor is responsible to ensure that the membrane is protected from any damage prior to placing of asphalt. This shall be considered incidental to the work. Refer to Schedule 'F' for data sheets and manufacturer's instructions and application specifications

SCHEDULE B
IDENTIFICATION OF PRINCIPALS

Name of Contractor:

Mailing Address:

Telephone:

Fax:

Principal's Name:

Title:

Mailing Address:

If Contractor is a corporation in which province of Canada is the corporation registered:

Project Number: 5150

TRANS CANADA HIGHWAY I

30104

Estimate: 4197

Length:

Department of Transportation Infrastructure & Energy

Province of Prince Edward Island

Schedule C

schedule of item for tender

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22 Jan 2019

Item Description and Price			Estimated Quantity	Contractor Total Price
GRANULAR BASE: A				
Section: 207	Item: 20701	Major Item		
-----			PER Tonnes	
-----			PER Tonnes	80,000.00 \$
-----			100	-----
FINE GRADING				
Section: 208	Item: 20801			
-----			PER Square Metre	
-----			PER M2	142,000.00 \$
-----			100	-----
SHOULDER MATERIAL: A				
Section: 211	Item: 21101			
-----			PER Tonnes	
-----			PER Tonnes	9,000.00 \$
-----			100	-----
ASPHALT CEMENT				
Section: 501	Item: 50101	Major Item		
-----			PER Tonnes	
-----			PER Tonnes	2,215.00 \$
-----			100	-----
SURCHARGE FOR POLYMER LIQUID ASPHALT				
Section: 501	Item: 50109			
-----			PER Tonnes	
-----			PER Tonnes	220.00 \$
-----			100	-----
TACK COAT				
Section: 601	Item: 60101			
-----			PER Square Metre	
-----			PER M2	140,000.00 \$
-----			100	-----

Total Carried Forward \$ -----

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Total Carried Forward \$ -----

Department of Transportation Infrastructure & Energy

Province of Prince Edward Island

Schedule C

schedule of item for tender

Item Description and Price			Estimated Quantity	Contractor Total Price
ASPHALT BASE: A				
Section: 603	Item: 60301	Major Item		
-----			PER Tonnes	
-----			\$ -----	PER Tonnes 35,800.00 \$ -----
			100	
ASPHALT SEAL: B				
Section: 603	Item: 60350	Major Item		
-----			PER Tonnes	
-----			\$ -----	PER Tonnes 3,500.00 \$ -----
			100	
HMA DRIVEWAY MIX				
Section: 610	Item: 61003			
-----			PER Tonnes	
-----			\$ -----	PER Tonnes 400.00 \$ -----
			100	
COLD PLANE CONST. JOINT				
Section: 705	Item: 70501			
-----			PER Square Metre	
-----			\$ -----	PER M2 500.00 \$ -----
			100	
RAP: SHOULDER MATERIAL				
Section: 712	Item: 71201			
-----			PER Square Metre	
-----			\$ -----	PER M2 11,000.00 \$ -----
			100	
COLD PLANE AND STOCKPILE				
Section: 716	Item: 71601			
-----			PER Square Metre	
-----			\$ -----	PER M2 5,000.00 \$ -----
			100	

Total Carried Forward \$ -----

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Total Carried Forward \$ -----

Project Number: 5150

TRANS CANADA HIGHWAY I

30104

Estimate: 4197

Length:

Department of Transportation Infrastructure & Energy

Province of Prince Edward Island

Schedule C

schedule of item for tender

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22 Jan 2019

Item Description and Price		Estimated Quantity	Contractor Total Price
SIGNALLERS			
Section: 901	Item: 90101		
		PER hrs	
Seventeen Dollars and 19 Cents	\$ 17.19	PER hrs	900.00 \$
		100	15,471.00
GUARDRAIL SUPPLY AND INSTALL			
Section: 903	Item: 90302	Major Item	
		PER Metres	
	\$	PER M	6,600.00 \$
		100	
TEMPORARY MARKING			
Section: 905	Item: 90501		
		PER Metres	
	\$	PER M	50.00 \$
		100	
TEMPORARY OVERLAY MARKERS (TOMS)			
Section: 905	Item: 90506		
		PER unit	
	\$	PER unit	200.00 \$
		100	
TRAFFIC CONTROL PLAN			
Section: 908	Item: 90802		
		PER hrs	
Twenty-Five Dollars and 00 Cents	\$ 25.00	PER hrs	140.00 \$
		100	3,500.00
GUIDERAIL END TREATMENT: SUPPLY & INST.			
Section: 909	Item: 90902		
		PER unit	
	\$	PER unit	5.00 \$
		100	

Total Carried Forward \$

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Total Carried Forward \$

Project Number: 5150

TRANS CANADA HIGHWAY I

30104

Estimate: 4197

Length:

Department of Transportation Infrastructure & Energy

Province of Prince Edward Island

Schedule C

schedule of item for tender

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22 Jan 2019

Item Description and Price		Estimated Quantity	Contractor Total Price
WATER PROOFING: BRIDGE DECK			
Section: 1381	Item: 138174		
-----		PER Square Metre	
	\$ -----	PER M2	3,410.00 \$ -----
		100	

Total Carried Forward \$ -----

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Total Carried Forward \$ -----

HST \$ -----

Grand Total \$ -----

SCHEDULE D

SCHEDULE OF EQUIPMENT TO BE USED ON THE WORK

SCHEDULE E
SCHEDULE OF SUB-CONTRACTORS



W. R. MEADOWS

SEALTIGHT

DATA SHEET NO. 7100-602

MEL-DEK™ Deck Waterproofing System

DESCRIPTION

MEL-DEK is a roll-type waterproofing membrane composed of a nominally 53 mil thick layer of polymeric waterproofing membrane on a shrink-resistant, heavy-duty, 12 mil thick, polypropylene woven carrier fabric. The two components are laminated together under strictly controlled production procedures.

USES

MEL-DEK waterproofing system provides an excellent waterproofing membrane for bridges, parking decks, or other vehicular traffic structures to be overlaid with an asphalt concrete wearing course. MEL-DEK is ideal for repair, maintenance, or new construction applications.

FEATURES/BENEFITS

- Requires no protection ... can withstand the dynamic placement of hot asphalt overlays.
- Provides 19.1 mm (3/4") membrane-to-membrane weld at seams for positive, monolithic protection.
- Flexible, dependable, cost-effective, and easy to install.
- Meets a wide range of maintenance and new construction application needs.

PACKAGING

18.29 m (60') long x .98 m (38.5") wide rolls

COVERAGE

16.72 m² (180 ft.²) of effective waterproofing coverage.
(17.88 m² [192.5 ft.²] gross coverage).

SPECIFICATIONS

- ASTM D 6153, Type III
- Approved by the Ministry of Transportation, Quebec.

TECHNICAL DATA

Thickness	65 mils
Tensile Strength, ASTM D 882	
Warp	1.6 kg/mm (90 lb./in.)
Fill	1.6 kg/mm (90 lb./in.)
Elongation, ASTM D 882	
Polymeric Membrane	410%
Fabric, Warp	35%
Fabric, Fill	45%
Puncture, ASTM E 154	1.22 kN (275 lb.)
Flexibility, ASTM D 146	
180° Bend, 6.35 mm (1/4") mandrel @ -32° C (-26° F)	Pass
Water Vapor Transmission, ASTM E-96, Water Method	0.03 Perms
Water Absorption	
ASTM D 1970	0.06%
ASTM D 1228	0.06%

Independent test report available upon request

APPLICATION

Note: For applications receiving overlays other than asphalt, please consult W. R. MEADOWS Technical Service.

Surface Preparation ... New concrete surfaces are to be fully cured and dry or approved by the engineer. Surface is to be cleaned of all dust, dirt, and debris just prior to priming. Existing concrete surfaces are to have a smooth, sound, monolithic surface, free of voids, spalled areas, sharp protrusions, and loose aggregate. Remove all traces of old membranes, oil, grease, or other contaminants. For enhanced bond between asphalt overlay and MEL-DEK, apply an asphalt emulsion, water-based tack coat to the surface of MEL-DEK.

Continued over ...

W. R. MEADOWS OF CANADA
70 Hannant Court, Milton, ON L9T 5C1
Phone: (905) 878-4122 • Fax: (905) 878-4125
Montreal Sales: (877) 405-5186

Hampshire, IL / Cartersville, GA / York, PA / Fort Worth, TX
Benicia, CA / Pomona, CA / Goodyear, AZ / Milton, ON
St. Albert, AB
www.wrmeadows.com

Temperature ... MEL-DEK may be applied in fair weather at air and concrete surface temperatures of 4° C (40° F) and higher.

Joints and Slab Drainage ... Apply a reinforcing strip of DETAIL STRIP from W. R. MEADOWS over all non-working joints or cracks over 4.76 mm (3/16") wide before applying finished membrane. Seal all terminations with POINTING MASTIC from W. R. MEADOWS. Deck surface must provide proper pitch to gutters and drains. Drainage openings should be provided at the structural deck level to drain any water that penetrates the asphaltic concrete surface.

Conditioning ... Condition all surfaces to be covered with MEL-PRIME™ or MEL-PRIME W/B adhesive from W. R. MEADOWS. Adhesive may be spray-applied or applied with a lamb's wool roller. Allow adhesive to dry until tack-free. Conditioned areas not covered in 24 hours must be re-applied. Coverage: 6.14 - 7.36 m²/L (250 - 300 ft.²/gal.).

Application Method ... Apply MEL-DEK from low point to high point in both the longitudinal and transverse directions. In the transverse direction, overlap in shingle fashion 63.5 mm (2 1/2") after removing the white polyethylene strip that exposes the 19.1 mm (3/4") rubberized asphalt. This will provide the membrane-to-membrane weld at seams. Longitudinally, overlap 150 mm (6") and seal with POINTING MASTIC. Once positioned, MEL-DEK should be immediately hand-rubbed onto the surface, followed by a pressure-applied roll pressing of the complete surface to assure positive adhesion. Seal all terminations with POINTING MASTIC.

Note ... Where a 125+ mil thick membrane is desired, overlap each roll of MEL-DEK 51%.

Inspect and Repair ... Inspect thoroughly before covering and make any necessary repairs immediately. Patch all tears, slit fish mouths and patch, then seal edges of all patches with POINTING MASTIC.

Paving ... Placement of the asphalt concrete overlay should be accomplished as soon as possible after application of MEL-DEK. A minimum 50 mm (2") compacted overlay thickness is required. The temperature of the asphalt concrete at the time of compaction should be a minimum of 143.3° C (290° F), not to exceed 171.1° C (340° F). Paving equipment should be rubber tire variety. Protect the membrane surface from unnecessary traffic. Place the overlay from low point to high point with care and caution.

PRECAUTIONS

Refer to Material Safety Data Sheet for complete health and safety information.

MASTERFORMAT NUMBER AND TITLE

07 13 26 - Self-Adhering Sheet Waterproofing

LEED INFORMATION

May help contribute to LEED credits:

- IEQ Credit 3.1: Construction Indoor Air Quality Management Plan: During Construction
- IEQ Credit 7.1: Thermal Comfort - Design
- MR Credit 2: Construction Waste Management
- MR Credit 5: Regional Materials

For most current data sheet, further LEED information, and MSDS, visit www.wrmeadows.com

2014-08-12



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