



LABORATORY TEST REPORT DUCAN DEK-MASTER 60 MIL VINYL



PRI-CMT Project No:
DUCP-001-02-01

TEST STANDARD:
CAN/CGSB 37.54-95

Dek-Master Certified 60 mil, PVC Waterproof Membranes have been specifically designed and engineered to combine Roof Grade waterproofing protection with a designer appearance, to protect and enhance:

*Roof Decks, Sundecks * Patios, Balconies
*Walkways, Ramps *Stairs, Landings

Dek-Master Certified 60 Mil Membranes: Fieldstone * Canyon Grey * Muskoka Shore

Application

Dek-Master Membranes should be fully adhered in sheet form to prepared substrates of either wood or concrete, all joints must be overlapped and fully heat welded.

All membranes should be installed in accordance with CAN/CGSB 37-GP-55M and Dek-Master installation specifications for materials and workmanship. We recommend an authorized Ducan Installer through your building center (varies by area).

All Adhesives, Sealants and Sundries must be as recommended or supplied by Ducan Products.

For additional information, refer to the Dek-Master 60 mil instructions, our Pro DVD and Hot Air Welding DVD for installation instruction or contact Ducan Products Inc.

Warranty:

Ducan Dek-Master 60 mil Certified Vinyl is covered by a 10 year limited Warranty, with a Certified Ducan Installer. For non-certified installation the warranty is 7 years.

Note: please contact Ducan for all warranty information

Quality Control

All Dek-Master Roof-Grade 60 mil products are under an ongoing third party quality control program, in conjunction PRI CONSTRUCTION MATERIALS TECHNOLOGIES consisting of quarterly inspections and laboratory testing.

Dek-Master Roof-Grade Physical Properties

Test Methods - PASSED In compliance with CAN/CGSB 37.54-95 Polyvinyl Chloride Roofing and Waterproofing Membrane.

Test methods assigned or referenced include:

ASTM D 570: Standard Test Method for Water Absorption of Plastics;
ASTM D 751: Standard Test Method for Coated Fabrics;
ASTM D 1790: Standard Test Method for Brittleness Temperature of Plastic Sheeting by Impact;
ASTM D 2136: Standard Test Method for Coated Fabrics Low Temperature Bend Test;
ASTM E 96/E 96M: Standard Test Methods for Water Vapor Transmission of Materials: and Waterproofing Materials;
ASTM G 154: Standard Practice for Operating Fluorescent Ultraviolet (UV) Lamp Apparatus for Exposure of Nonmetallic Materials.

All Dek-Master 60 mil Membranes comply with CAN/CGSB-37.54-95 test standard for Polyvinyl Chloride Roofing and Waterproofing membrane as per **PRI-CMT** DUCP-001-02-01

Ducan Products Inc.
1910 Broadway Street,
Port Coquitlam, B.C. V3C 2N1
Phone: 604-942-0722 Fax: 604-942-3601

Results:

Property	Test Method	Results	Requirement
Physical Properties			
Thickness, (mm) 5 specimens			
Overall w/fleece backing removed	ASTM D 751	1.3	≥ 1.2
Coating	CAN/CGSB 37.54-95	0.8	≥ 0.4 No individual measurement less than 0.32
Breaking Strength, (kN/m) 5 specimens; 102 x 152 mm Test @ 23±2°C & 50±5%RH; Rate = 5±2 mm/s	ASTM D 751		
MD		51	≥ 35
CMD		45	≥ 35
Elongation at Break, (%) 5 specimens; 102 x 152 mm Test @ 23±2°C & 50±5%RH; Rate = 5±2 mm/s	ASTM D 751		
MD		116	≥ 15 PVC matrix intact at break
CMD		120	≥ 15 PVC matrix intact at break
Lap Joint Strength, (% of Breaking Strength) 5 specimens; 102 x 152 mm; Test @ 23±2°C & 50±5%RH; Rate = 5±2 mm/s	ASTM D 751		
Initial		86	≥ 75
After 7 days in boiling water		84	≥ 70
Low Temperature Impact (# of passing specimens) 10 specimens; Cond. 90 min @ -30±1°C; Test @ -30±1°C;	ASTM D 1790	Pass	8 of 10 specimens shall pass

Continued on next page

DUCP-001-02-01 PRI-CMT Accreditations: IAS TL-189; Miami-Dade 11-0429.05; Florida TST5878; Los Angeles TA24819; CRRC
 The test results, opinions, or interpretations are based on the material supplied by the client. This report is for the exclusive use of stated client. No reproduction or facsimile in any form can be made without the client's permission. This report shall not be reproduced except in full without the written approval of this laboratory. PRI Construction Materials Technologies LLC assumes no responsibility nor makes a performance or warranty statement for this material or products and processes containing this material in connection with this report.

Property	Test Method	Results	Requirement
Retention of Properties after Heat Aging, (% of original) After 60 days at 80±1°C	CAN/CGSB 37.54-95		
Breaking Strength	ASTM D 751	92	≥ 90
Elongation at Break	ASTM D 751	92	≥ 90 PVC matrix intact at break
Low Temperature Flexibility	ASTM D 2136	Pass	Pass
Low Temperature Flexibility, 3 specimens with fleece backing removed; Cond. 4 h @ -40±1°C; Test @ -40±1°C; Bend 180° over 3.2 mm Ø rod	ASTM D 2136	Pass	Pass
Retention of Properties after Accelerated Weathering, (% of original) After 5000 h of UV/condensation exposure	ASTM G 53/G 154		
Visual Inspection	CAN/CGSB 37.54-95	Pass	No cracking, blistering, or appreciable color change
Elongation at Break	ASTM D 751	109	≥ 90 PVC matrix intact at break
Low Temperature Impact @ -20±1°C	ASTM D 2137	Pass	8 of 10 specimens shall pass
Low Temperature Flexibility – 6.4 mm Ø mandrel	ASTM D 2136	Pass	Pass
Water Vapor Transmission, (g/m ² in 24 h) 3 specimens; Test @ 23±1°C & 50±2% RH	ASTM E 96 Procedure A	0.2	≤ 4.0
Effect of Water Absorption, (% of original) After immersion for 7 days at 70±1°C			
Mass Increase w/fleece backing removed	ASTM D 570	2.2	≤ 3.0
Breaking Strength	ASTM D 751	91	≥ 90
Elongation at Break	ASTM D 751	91	≥ 90 PVC matrix intact at break
Dimensional Change, (%) After 6 h at 80±1°C	CAN/CGSB 37.54-95		
Without Loading - MD		0.4	≤ 0.5
Without Loading - CMD		0.3	≤ 0.5
With Loading - MD		0.1	≤ 0.5
With Loading - CMD		0.1	≤ 0.2

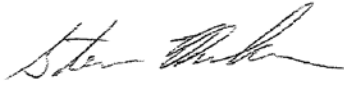
Continued on next page

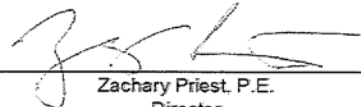
DUCP-001-02-01 PRI-CMT Accreditations: IAS TL-189; Miami-Dade 11-0429.05; Florida TST5878; Los Angeles TA24819; CRRC
 The test results, opinions, or interpretations are based on the material supplied by the client. This report is for the exclusive use of stated client. No reproduction or facsimile in any form can be made without the client's permission. This report shall not be reproduced except in full without the written approval of this laboratory. PRI Construction Materials Technologies LLC assumes no responsibility nor makes a performance or warranty statement for this material or products and processes containing this material in connection with this report.

Property	Test Method	Results	Requirement
Cone Penetration, (N) 5 specimens; 50 x 50 mm; Test @ 23±2°C & 50±5%RH; Rate = 1.27 mm/min	CAN/CGSB 37.54-95	85	≥ 30

Statement of Compliance:

The product tested has demonstrated compliance with the physical property requirements of **CAN/CGSB 37.54-95 Polyvinyl Chloride Roofing and Waterproofing Membrane** Type III, Class B. The laboratory test results presented in this report are representative of the material supplied.

Signed: 
 Steven Mueller
 Technician

Signed: 
 Zachary Priest, P.E.
 Director

Date: April 1, 2013

Date: April 1, 2013

Report Issue History:

Issue #	Date	Pages	Revision Description (if applicable)
Original	04/1/2013	4	NA

END OF REPORT

DUCP-001-02-01 PRI-CMT Accreditations: IAS TL-189; Miami-Dade 11-0429.05; Florida TST5878; Los Angeles TA24819; CRRC
 The test results, opinions, or interpretations are based on the material supplied by the client. This report is for the exclusive use of stated client. No reproduction or facsimile in any form can be made without the client's permission. This report shall not be reproduced except in full without the written approval of this laboratory. PRI Construction Materials Technologies LLC assumes no responsibility nor makes a performance or warranty statement for this material or products and processes containing this material in connection with this report.