

Why is an Evaluation Report so Important

when evaluating a membrane roof covering suitable for pedestrian traffic?

Membrane roof coverings are designed, manufactured and tested to withstand direct “service” foot traffic. Slip resistance, abrasion resistance and resistance from sustained loads are not part of a roofing membrane standard’s criteria, but are essential to pedestrian traffic membranes.

Evaluation reports are based on acceptance criteria specifically created for evaluating *PVC Sheet-applied Waterproof Deck membrane (Exposed to Light Pedestrian Traffic)*.

Architects, Engineers, Contractors, Specifiers and others in the building industry

Evaluation reports assist in determining if a new or novel product meets the intent of the National Building Code of Canada and is suitable for its intended use. Due diligence is provided by CCMC.

Local Building Officials / Authorities Having Jurisdiction (AHJ)

It is not mandatory that the AHJ use evaluation reports, but rather evaluation reports are there to facilitate a product’s acceptance by an AHJ. CCMC evaluation reports remove the burden of determining a product’s proof of Code compliance for its intended use.

National Building Code of Canada (NBC) requirements for a membrane roof covering:

The NBC requires Polyvinyl Chloride Roofing and Waterproofing membrane to comply with CAN/CGSB 37-54 material standard. To meet these material standards for a membrane roof covering:

Laboratory performs material standards tests



Laboratory issues report

Canadian Construction Material Centre (CCMC) Listing Requirements for a membrane roof covering:

CCMC also reviews 3rd party test reports for membrane roof coverings. If results are acceptable, they will issue a “listing” for the product. A CCMC “Listed” product does not imply the roof membrane is suitable for pedestrian traffic decks.

CCMC Evaluation Report requirements for a membrane roof covering suitable for pedestrian traffic:

The National Research Council Canada (NRC) issues the National Building Code of Canada (NBC). The Canadian Construction Materials Centre (CCMC), which operates within the NRC, is an approved agency which provides evaluation reports that can be used to determine if a unique product is suitable for its intended use.

CCMC creates acceptance criteria (Technical Guides) for products with a similar usage. In the case of Duradek Ultra Roof and Walking Deck membrane it is the Technical Guide for *PVC Sheet-Applied Waterproof Deck Membrane (Exposed to Light Pedestrian Traffic)* Master Format Section: 07 54 19.01.

Acceptance Criteria (AC) are scrutinized and updated to meet the ever-evolving NBC.

CCMC reports are “performance” based as opposed to a “material” based standard roof membrane report. CCMC reports include key information such as materials and installation used in the evaluated systems.

CCMC report holders are required to have their products under a QC program, whereas Membrane Roof Covering standards do not require QC audits.

• Acceptance Criteria (AC) created for “unique” product

• Laboratory performs tests per the requirements of the AC

• Test reports, calculations & QA/QC documents are submitted to CCMC

• CCMC checks data for compliance to AC & Codes

• CCMC issues Evaluation Report

• CCMC report includes notification of:

- Compliance with applicable codes
- Allowable use of product
- Materials used in the evaluated system
- Conditions of use
- Evidence submitted
- Product Identification

• CCMC requires 3rd party QC audits



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Test Programs and Methods

Program	Test Method
CAN/CGSB 37-54	Building Code & Residential Code Requirements for a Membrane Roof Covering
	Overall Membrane Thickness
	Coating or Laminate Thickness
	Breaking Strength and Elongation
	Lap Joint Strength
	Low Temperature Impact
	Resistance to Heat Aging (60 Days)
	Low Temperature Flexibility
	Resistance to Accelerated Weathering (5000 hrs QUV)
	Water Vapour Transmission
	Water Absorption
	Dimensional Change after Stress Relaxation
Cone Penetration	
CCMC	Technical Guide for PVC Sheet-Applied Waterproof Deck Membrane (exposed to light pedestrian traffic)
	Load-strain properties
	Static Puncture
	Dynamic Puncture
	Lap Joint Strength
	Resistance to Accelerated Weathering (2000 hrs xenon)
	Adhesion to Substrate
	Slip Resistance
AC 39	Acceptance Criteria for Walking Decks
	Accelerated aging Test (ASTM D756, procedure D and E)
	Fire-Retardant Roof-Covering Test
	Bond Strength Test
	Abrasion Test
	Percolation Test
	Chemical-Resistance Test
	Concentrated Load Test
	Impact Resistance
AC 75	Acceptance Criteria for Membrane Roof Covering Systems
	Wind Resistance (non ballasted)
	Edge Securement

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