



# 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 membrane.

ICC-ES created acceptance criteria specifically for *roof & walking deck membranes subject to “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 International Building or Residential Codes and is suitable for its intended use. Due diligence is provided by ICC-ES.

## 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. ICC-ES evaluation reports remove the burden of determining a product’s proof of Code compliance for its intended use.

## International Building & Residential Codes requirements for a membrane roof covering:

The International Codes require Thermoplastic single - ply roofing membranes to comply with material standards: ASTM D 4434, ASTM D 6754, ASTM D 6878 or CAN/CGSB 37-54. To meet these material standards for a membrane roof covering:

Laboratory performs material standards tests



Laboratory issues report

## ICC-ES Evaluation Report requirements for a membrane roof covering suitable for pedestrian traffic:

The International Code Council (ICC) developed & administers the International Building Code (IBC). ICC Evaluation Services (ICC-ES), a subsidiary of ICC, is an approved agency which provides evaluation reports that can be used to determine if a unique product is suitable for its intended use.

ICC-ES creates acceptance criteria (AC) for products with a similar usage. In the case of Duradek Ultra Roof and Walking Deck membrane it is AC 39 for Walking Decks and AC 75 for Membrane Roof Covering Systems.

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

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

ICC-ES report holders are required to have their products under a QC program administered by ICC-ES, whereas Membrane Roof Covering standards do not require QC audits for materials tested.

• 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 ICC-ES

• ICC-ES checks data for compliance to AC & Codes

• ICC-ES issues Evaluation Report

• ICC-ES 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

• ICC-ES performs 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 Vapor Transmission
Water Absorption
Dimensional Change after Stress Relaxation (without loading)
Dimensional Change after Stress Relaxation (with loading)
Cone Penetration

MEMBRANE ROOFING COVERING

**AC 75** **Acceptance Criteria for Membrane Roof Covering Systems**

Wind Resistance (non ballasted)
Edge Securement

**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

PEDESTRIAN TRAFFIC MEMBRANE

**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

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