

ICC-ES Evaluation Reports Explained

- A. ICC Evaluation Service (ICC-ES), a subsidiary of the International Code Council, interprets the International Codes.
 - ICC-ES is a non-profit, limited liability company that conducts technical evaluations of building products, components, methods, and materials.
- B. An Evaluation Report presents the findings of ICC-ES as to the compliance with code requirements of the subject of the report—a particular building product, component, method or material. ICC-ES evaluation reports are aimed particularly at making it easier for those charged with enforcing code—building officials, building departments, building inspectors in the field—to determine the compliance of products with code. Evaluation reports are also used extensively by architects, engineers, contractors, specifiers, and others in the building industry that have an interest in making sure products and systems meet building-code requirements.

- CSI Division Number: ICC-ES Evaluation Reports, and the building products represented in them, are organized according to the Construction Specifications Institute's (CSI) Master Format system.
 - Section: 07 18 13 Pedestrian Traffic Coatings: are defined either
 as a cementitious coating, an elastomeric coating or as a membrane
 system. Duradek Ultra is a membrane system.

Duradek Ultra was also evaluated as product meeting the following membrane roofing criteria.

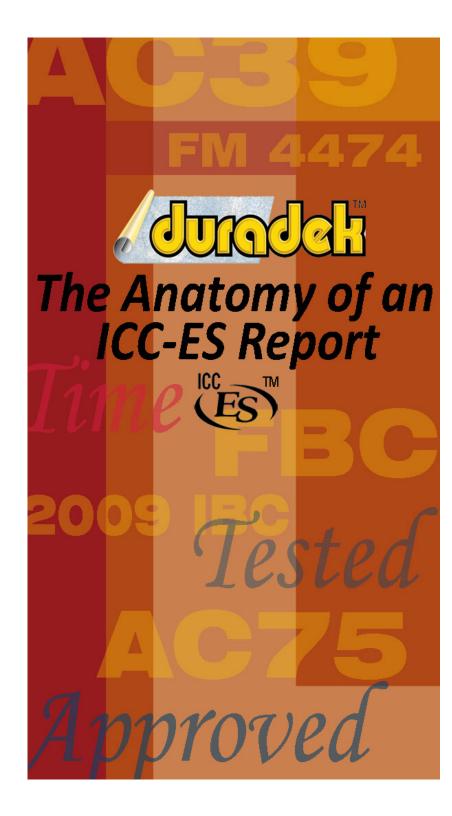
- Section: 07 54 00 Thermoplastic Membrane Roofing
- Section: 07 54 19 Polyvinyl-chloride Roofing

Cementitious & elastomeric membranes are not subject to additional roof covering systems approval.

- 2. Report Holder: The name and address of the company or organization that has applied for the Evaluation Report.
- **3. Evaluation Subject:** The specific product(s) covered by the report.
- **4. Evaluation Scope:** The code(s) that were used to evaluate the product.
 - 31 States have adopted the 2009 IBC and 27 have adopted the 2009 IRC.
- 5. Properties Evaluated: a brief description of the properties the product was evaluated against such as fire resistance and wind resistance. This section also shows if the product can be used for structural purposes.
- **6. Uses:** Identifies the product's uses and the applicable code provisions. Walking decks may be used in three different applications:
 - a. walking deck only;
 - b. walking deck and non classified roof covering;
 - c. walking deck and classified roof covering.

Duradek Ultra is classified as a walking deck and classified roof covering.

- **7. Description:** Provides a general description of the product and its features, such as length, thickness, etc.
- Installation: Identifies requirements to help the inspector ensure the product is installed properly according to the code requirements or acceptance criteria.
- Conditions of Use: Statement that the product, as described in the Evaluation Report, complies with, or is a suitable alternative to, the requirements of the applicable code; lists conditions under which the report is issued.
 - Item 5.5— Duradek Ultra membranes are manufactured under a quality control program.
- Evidence Submitted: Data (i.e., standards, calculations, installation instructions, quality documentation) that was used in evaluating the product.
 - Duradek Ultra membrane meet the Acceptance Criteria for Walking Decks (AC 39), the criteria used for Pedestrian Traffic Coatings, and for Membrane Roof Covering Systems (AC 75).
 - Simulated wind uplift tests are required for membrane roof covering classifications but not for Cementitious & Elastomeric Coatings systems.
- Identification: Information that can be used to identify the product, including the manufacturer's name, product name, Evaluation Report number, etc.



| ICC-ES.ORG -REPORTS for PEDESTRIAN TRAFFIC COATINGS Information listed on ICC-ES Website as of August 2012 | | | | | | | | | | |
|--|---------------|--|--|--------------|--|--|--|--|--|--|
| To view repoi | rts online, v | isit: | | | | | | | | |
| http://www.icc-es.org/reports/index.cfm?csi_num=07_18_13&view_details | | | | | | | | | | |
| Report Number | Org./Code | Manufacturer | Product | Codes | | | | | | |
| <mark>≧R-1284</mark> | ICC-ES | Gaco Western, LLC | Gacoflex Urethane Rubber Walking Deck and Roof Covering | 09 06 LC | | | | | | |
| Z R-1661 | ICC-ES | Hill Brothers Chemical Company | Desert Crete and Desert Brand Magnesite Fire-retardant Walking Deck and Roof Covering Systems | 06 LC | | | | | | |
| <mark>≧R-1714</mark> | ICC-ES | Crossfield Products Corp. Miracote Division | Miracote Miraflex II Walking Deck and Roof Covering | 06 LC | | | | | | |
| R-1757 | ICC-ES | Crossfield Products Corp. | Dex-O-Tex Weatherwear Roof Deck Covering | 09 06 LC | | | | | | |
| <mark>∠R-2028</mark> | ICC-ES | Americrete, LLC | A-9000 Decking System | 09 06 LC | | | | | | |
| <mark>Z</mark> R-2091 | ICC-ES | Lonseal, Inc. | Londeck Walking Deck System | 06 | | | | | | |
| <mark>⊠</mark> R-2097 | ICC-ES | Pli-Dek Systems, Inc. | Pli-Dek and Con-Dek Walking Deck and Roof Covering Systems | 09 06 FBC LC | | | | | | |
| <mark>≧R-2125</mark> | ICC-ES | AVM Industries, Inc. | Elasto Fiberdeck 100 Walking Deck System | 09 06 | | | | | | |
| <mark>Z</mark> R-2151 | ICC-ES | Duradek U.S. Inc. | Duradek Ultra Roof and Walking Deck Membranes | 09 | | | | | | |
| <u> </u> | ICC-ES | Westcoat | Westcoat ALX System | 09 06 LC | | | | | | |
| Z R-2245 | ICC-ES | Environmental Building Products, Inc. dba Enduro Products | Enduro-Kote and Enduro-Flex Kote Walking Deck and Roof Covering Systems | 09 06 LC | | | | | | |
| <mark>∠R-2413</mark> | ICC-ES | Skyline Building Systems, Inc. | DecTec Select Walking Deck and Roof Membrane | 06 LC | | | | | | |
| ∠ R-2492 | ICC-ES | Quality Systems, Inc. | Perma•Crete® Deck Coating Products Finish System | O6 LC | | | | | | |
| <mark>Z</mark> R-2697 | ICC-ES | Pacific Polymers, Inc. | Elasto-Deck 5000 FR Walking and Roof Deck System | 09 06 | | | | | | |
| <mark>⊈R-2785</mark> | ICC-ES | Polycoat Products | Polycoat-Aquatight®, Polytuff, Flexideck® P-TW Underlayment Waterproofing System | 06 LC | | | | | | |
| <mark>⊼R-2897</mark> | ICC-ES | Parex USA, Inc. | Mer-Ko Shur Deck | 09 | | | | | | |
| <mark>⊠R-2900</mark> | ICC-ES | Parex USA, Inc. | Mer-Ko Weather Deck | 09 | | | | | | |
| | | | Tufdek® Professional Series | 09 | | | | | | |
| <u>™R-3262</u> | ICC-ES | Tuff Industries, Inc. | Walking Deck and Roof System | | | | | | | |
| ☑R-3262 ☑-3389 - ESR-2900 | | Tuff Industries, Inc. Mer-Kote Products, Inc. | | LC | | | | | | |
| | | · | Walking Deck and Roof System | LC | | | | | | |
| <u>I</u> -3389 - ESR-2900 | <u>UBC</u> | Mer-Kote Products, Inc. | Walking Deck and Roof System Converted to ESR-2900 Excel-Coat® Walking and Roof Deck | | | | | | | |
| ☑-3389 - ESR-2900 ☑-4804 | UBC UBC | Mer-Kote Products, Inc. Excellent Coatings, Inc. Deck Flex Waterproofing | Walking Deck and Roof System Converted to ESR-2900 Excel-Coat® Walking and Roof Deck System Deck Flex W.M. and Deck Flex W.F. Fire Retardant Walking Deck and | LC | | | | | | |

| Divisions Listed | | Compliance with Code Edition | | | Uses: classification as defined in AC39 | Quality Control | Evidence Submitted | |
|--|---|------------------------------|----------|------------|---|---|--------------------|--|
| Pedestrian Traffic Coating Acceptance Criteria for Walking Decks (AC39) | Membrane Roofing Acceptance Criteria for Membrane Roof Covering Systems (AC75) | 2009 IBC | 2009 IRC | FBC | Walking Deck Only Walking deck & non-classified roof covering Walking deck & classified roof covering | QC program with inspection agency named | Acceptance | Simulated wind uplift testing (FM 4474 Appendix B) Fire classification testing (ASTM E108) Acceptance Criteria for Membrane Roof Covering Systems (AC75) |
| ✓ | | ✓ | ✓ | | 1 | ✓ | ✓ | |
| ✓ | | | | | 1 | ✓ | ✓ | 3 2 |
| ✓ | | | | | 1 | ✓ | ✓ | 5 4 |
| ✓ | | ✓ | ✓ | | 1 | ✓ | ✓ | 3 6 |
| ✓ | | ✓ | ✓ | | 1 | ✓ | ✓ | 4 |
| √ | | | | | 1 | | √ | |
| V | | √ | ✓ | √ | 1 | √ | √ | 5 7 |
| ✓ | | ✓ | ✓ | | 1 | ✓ | ✓ | 4 |
| ✓ | ✓ | ✓ | ✓ | √ * | ✓ ✓ | ✓ | ✓ | ✓ ✓ |
| ✓ | | √ | √ | | 1 | | √ | 3 4 |
| ✓ | | ✓ | ✓ | | ✓ ✓ | ✓ | ✓ | 3 4 |
| ✓ | | | | | ✓ ✓ | | ✓ | 8 |
| ✓ | | | | | 1 | ✓ | ✓ | |
| ✓ | | ✓ | ✓ | | 1 | ✓ | ✓ | 4 |
| ✓ | | | | | 1 | ✓ | ✓ | 4 |
| √ | | √ | √ | | ✓ ✓ | √ | √ | 3 4 |
| ✓ | | √ | V | | V V | ✓ | √ | 3 4 |
| \checkmark | \checkmark | ✓ | ✓ | | ✓ ✓ | | \checkmark | 9 |

2009 IBC adopted in 31 states or territories

2009 IRC adopted in 31 states or territories

★ Approved by Florida Building Commission
- FL#12407-R1 for use outside of HVHZ

ICC-ES Report Comparisons for Pedestrian Traffic Coatings

It is apparent that when choosing a deck waterproofing product, it is not always an "apples-to-apples" comparison. Even when products receive similar testing, there is a significant "grey area" to what standards were actually tested.

For architects, inspectors, specifiers, builders and homeowners, it is important to know what to look for to be sure you are getting the product performance and value that you are expecting.



Duradek Ultra vinyl is the most tested product in its class and is upheld to the highest test performance measurements for a walking deck and classified roof covering membrane.

- 1) Classification not stated in Evaluation Report
- 2) ASTM E119 one-hour fire-resistance-rated construction (optional)
- 3) Allowable wind speeds noted in report. No winduplift tests required for bonded coating systems as long as test specimens provide a minimum bond strenght of 10 psi
- 4) Test standard not mentioned in report
- 5) Wind resistance testing in accordance with FM 1-52
- 6) Reports of reduced-scale fire-resistive-rated assembly tests submitted
- 7) Reports of small-scale fire tests in accordance with ASTM E119 submitted
- 8) Wind uplift resistance noted in report
- 9) Allowable wind uplift noted in report but no test standard noted

International Code Editions

adopted by state and jurisdiction listed: www.iccsafe.org

ICC-ES Approved Acceptance Critereia (AC) listed: www.icc-es.org/criteria/index

