

BUILDING PRODUCT LISTING PROGRAM

Customer: Duradek U.S. Inc.
Class: Polyvinyl-Chloride Roofing
Location: North Kansas City, MO
Website: www.duradek.com

Listing No. B1023-2
Project No. B1023-2 Edition 8

Effective Date: August 12, 2011
Last Revised Date: July 8, 2021
Expires: N/A

Standards: ASTM D4434 "Standard Specification for Poly(vinyl Chloride) sheet Roofing"
ASTM E108 "Standard Test Methods for Fire Tests of Roof Coverings"
ANSI/SPRI ES-1 "Wind Design Standard for Edge Systems Used with Low Slope Roofing Systems"
ASTM G155 "Standard Practice for Operating Xenon Arc Light Apparatus for Exposure of Non-Metallic Materials"
CGSB 37-GP-52M "Roofing and Waterproofing Membrane, Sheet Applied, Elastomeric" (for impact resistance only)
ANSI/FM 4474 "Evaluating the Simulated Wind Uplift Resistance of Roof Assemblies Using Static Positive and/or Negative Differential Pressures"

Product: Duradek Ultra, Tiledek, and Okanagan V2V - Polyvinyl-Chloride (PVC) Roofing and Walking Deck Membrane

Markings: Each roll of Duradek Ultra, Tiledek, and Okanagan V2V is marked with a permanent label containing the following information:

- a) Manufacturers name or recognized trademark (Duradek)
- b) Product name or product number
- c) Batch Number for traceability
- d) QAI logo with 'c' and 'us' indicators
- e) QAI file number: B1023
- f) QAI logo shown here:





Models / Ratings:

Model	Nominal thickness	Surface	Roll Width(s)
Ultra	60 mils (1.5 mm)	Embossed	72 inches (1.83 m)
Okanagan V2V	60 mils (1.5 mm)	Embossed	72 inches (1.83 m)
Tiledek	60 mils (1.5 mm)	Adhered non-woven polyester fabric finish	72 inches (1.83 m)

Results:

Standard	Details	Rating
ASTM D4434	Nominally 1.5 mm (0.060 inch) thick	Type II
ANSI/SPRI ES-1	2-1/4" x 3-1/4" (57 mm x 83 mm) PVC Metal Roof Edge Flashing system	Maximum test pressure of 305 psf (14.6 kPa) (factor of safety of 2)
ASTM G155	After 2000 hours	Did not show any surface deterioration and there was no loss in tensile strength
CGSB 37-GP-52M	Impact Resistance Only	Pass
ASTM E108	See ASTM E108: Decking Assembly Details	See ASTM E108: Decking Assembly Details

ASTM E108: Decking Assembly Details

Rating:	Class A
Deck Slope:	1/4 : 12
Deck:	Non-combustible sheathing defined and installed in accordance with the applicable code.
Membrane:	Duradek Ultra or Okanagan V2V 60 mils (1.5 mm) adhered to the non-combustible substrate with Duradek D811 (solvent-based) or D763 (water-based) adhesive applied per Duradek installation instructions.

Rating:	Class A
Deck Slope:	1/4 : 12
Deck:	Non-combustible sheathing defined and installed in accordance with the applicable code.
Membrane:	Duradek Tiledek 60 mils (1.5 mm) adhered to the non-combustible substrate with Duradek D811



	(solvent-based) or D763 (water-based) adhesive applied per Duradek installation instructions.
Surface Covering:	Non-combustible tile adhered to Duradek Tiledek per Duradek installation instructions.

Rating:	Class C
Deck Slope:	1/4 : 12
Deck:	19/32" (15 mm) AC Exterior grade plywood, moisture content not greater than 8% fastened with #10 exterior wood screws. The fasteners are spaced 6" (152 mm) OC along edges and 8" (203 mm) OC along intermediate supports. All deck joints are covered evenly with Mapei PlaniPatch floor patch.
Membrane:	Duradek Ultra or Okanagan V2V 60 mils (1.5 mm) adhered to cement board with Duradek D811 (solvent-based) adhesive applied per Duradek installation instructions.

Rating:	Class C
Deck Slope:	1/4 : 12
Deck:	19/32" (15 mm) AC Exterior grade plywood, moisture content not greater than 8% fastened with #10 exterior wood screws. The fasteners are spaced 6" (152 mm) OC along edges and 8" (203 mm) OC along intermediate supports. All deck joints are covered evenly with Mapei PlaniPatch floor patch.
Membrane:	Duradek Tiledek adhered to cement board with Duradek D811 (solvent-based) adhesive applied per Duradek installation instructions.
Surface Covering:	Non-combustible tile adhered to Duradek Tiledek per manufacturer's installation instructions.

ANSI/FM 4474, Determined allowable uplift resistance

System No.	Substrate ^{3, 4}	Adhesive ⁵	Maximum Allowable Wind Uplift psf (kPa) ^{1, 2}
1	Cement board	Duradek D763	200 (9.6)
2	Cement board	Duradek D811	200 (9.6)
3	Plywood	Duradek D763	200 (9.6)



4	Plywood	Duradek D811	240 (11.5)
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- ¹ A factor of safety of 2 is applied to the maximum allowable wind uplift results.
- ² The wind uplift test results can be related to the adhesion of the membrane to the substrate only. Results are not an indication of the bond of the substrate to the substructure and are not an indication of the strength of the deck substructure. The deck and framing to which the Duradek Duradek Ultra, Tiledek and Okanagan V2V systems are adhered and must be designed for the applicable components and wind loads in accordance with the applicable code.
- ³ Plywood is minimum 5/8-inch-thick exterior-grade with tongue-and groove edges, complying with recognized standards.
- ⁴ Cement board is 'USG Durock Cement Board Next Gen' minimum 1/2-inch-thick (nominal).
- ⁵ Adhesive must be applied in accordance with the manufacturer's published installation instructions.

Notes: Products must be installed with the manufacturer's published installation instructions and in accordance with the building codes recognized by the authority having jurisdiction.

Listed manufacturers are subject to on-going inspections by QAI to ensure that the products outlined above remains as it is listed.

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