

BUILDING PRODUCT LISTING PROGRAM

Class: Polyvinyl-Chloride Roofing

Customer: Duradek U.S. Inc.
Location: North Kansas City, MO

Listing No.: B1023-2
Edition No.: 4
Effective Date: August 12, 2011
Last Revised: February 23, 2016
Expires: April 29, 2020

Product: Duradek Ultra - Polyvinyl-Chloride (PVC) Roofing and Walking Deck Membrane

Standards:

CAN/CGSB-37.54	"Polyvinyl Chloride Roofing and Waterproofing Membrane"
ASTM E108	"Standard Test Methods for Fire Tests of Roof Coverings"
CAN/ULC S107	"Methods of 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"

Label: Each roll of Duradek Ultra 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) Type and class of the product in accordance with CAN/CGSB 37.54 (Type 3, Class B)

Duradek Ultra is approved for use with Duradek adhesives D811 and D763. Adhesives are marked with:

- a) Listee name or recognized trademark (Duradek)
- b) Address, including city and country of manufacture
- c) Product name or designation (D811 or D763)
- d) Batch number keyed to the date of manufacture
- e) Product expiration date
- f) Quantity of adhesive

Models:

Model:	Nominal thickness:	Surface:	Roll Width(s):
Duradek Ultra	1.5mm (60mil)	Embossed	72 inches

Results:

Standard:	Details:	Rating:
CAN/CGSB-37.54		Type 3, Class B membrane
ANSI/SPRI ES-1	2-1/4" x 3-1/4" PVC Metal Roof Edge Flashing system	Maximum test pressure of 305 psf (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 & CAN/ULC S107: Decking Assembly Details	Class A Rating
CAN/ULC S107		

ASTM E108 & CAN/ULC S107: Decking Assembly Details

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

ANSI/FM 4474, Determined allowable uplift resistance

System No.	Substrate ^{3, 4}	Adhesive ⁵	Maximum Allowable Wind Uplift (psf) ^{1,2}
1	Cement board	Duradek D763	200
2	Cement board	Duradek D811	200
3	Plywood	Duradek D763	200
4	Plywood	Duradek D811	240

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 Ultra system is adhered 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.

Note:

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.
