January 2, 2015

Patented Air Seal Method and Deck Requirement

For Specific MPH Wind Rider

1) 54 **MPH Wind Riders:** Requires-PIN submittal and approval

Up to 54 MPH all 2001 Company Air Seal details and finished roofs must be completed by a licensed applicator and inspected and approved by a 2001 Co. field technician.

2) **55 to 79 MPH Wind Riders:**

A. Wind riders over 61 MPH require Pre-Installation Notice (PIN) and require PIN acceptance plus ASCE 7 evaluation.

B. Roof assembly acceptance by 2001 Co. prior to starting the roof.

C. ASCE-7-11 PSF pressure evaluation.

3) **80 to 119 MPH Wind Riders:**

Buildings in hurricane susceptible coastal area require one or more of the following:

A. Hurricane back wrap compression board 4' wide for 120 mph maximum on an air permeable roof deck.

B. Shear skirt termination through the air sealed substrate onto the monolithic roof deck only.

Note: No vertical wall shear skirt terminations over 90 mph.

C. Spring flange air seal membrane held in compression on a non-fastenable deck with a vertical wall termination and wall to deck air seal. Every building is evaluated. **90 mph Wind Rider maximum.**

D. Pictures of air seals being installed are required for Wind Riders over 80 MPH.

4) **120 Up to 150 MPH Wind Rider:** New Construction or

Complete tear off to deck is usually necessary for re-roofing.

A. **On 22 gauge metal decks fastened with cowboy hat washers and structured "C" channel perimeter nailers (wood blocking not acceptable)**

1. Using 2001 Co. Slow Rise Adhesive, Foam deck air sealing application techniques simultaneously adhering rigid roof insulation and install Hurricane Back Wrap Air Seal Details.

2. C-EPDM air barrier membrane and mechanically fasten using 2001 Co. cement board deck enhancement technique.

B. On structured concrete roof decks

1. On poured in place monolithic concrete decks, direct termination of the field membrane to the concrete deck is required around perimeters and panel roofing.

2. On precast panel, hollow core, Twin T's, etc., concrete deck joints must be air sealed with 18' minimum wide strips of reinforced EPDM membrane strips adhered over the deck joints with 2001 Co. Butyl Vapor Barrier Adhesive.

C. Pictures of air seals being installed are required for Wind Riders over 80 MPH.

5) **Over 150 MPH and up to 200 MPH Wind Rider:**

A. On structural poured in place concrete decks, 2001 Co. requires direct termination of reinforced membrane 24" or greater out from the perimeter edge, 12" or greater out from penetration edges.

B. On precast concrete panel decks: Flexcor, HollowCore T's, Twin T's, etc. require all deck joints and through roof deck penetration to be air sealed with 18" minimum wide strips of reinforced EPDM membrane adhered with 2001 Co. Butyl Vapor Barrier Adhesive. Angle changes in the roof deck, parapets, higher building walls, equipment curbs, etc. are also air sealed with reinforced EPDM membrane strips adhered with Butyl Vapor Barrier Adhesive to stop internal building air flow up into the roof assembly.

C. Structural concrete poured in a metal pan is considered a poured in place concrete deck.

D. Pictures of air seals being installed are required for Wind Riders over 80 MPH.

Mailing Address: **P.O. Box 2557, Waterbury, CT 06723-2557**
Shipping Address: **325 Thomaston Avenue, Waterbury, CT 06702**
Tel: (203) 575-9220 Fax: (203) 573-0781 www.2001Company.com