January 2, 2015

2001 Co. Hurricane Back Wrap-Introduction

Air Seal Application Technique Benefits and Requirements

(Used in Low VOC Compliant States and for Installations Requiring up to 150 MPH Warranties)

Increases the building's structural shear resistance similar to a lid on a "Tupperware Box".

The Hurricane Back Wrap Compression Board perimeter picture frame of the roof deck, locks out horizontal air infiltration into a roof assembly and structurally strengthens the buildings perimeter by installing a double deck compression structure where 90% of wind up lift pressure occurs.

Benefits and requirements of Hurricane Back Wrap Air seals: (Field membrane fastened below OSB and adhered to the top of OSB)

1. **To stop perimeter and penetration horizontal air infiltration into the roof assembly:** from exterior or interior building components by compressing a liner series of butyl gum strips between roof assembly components with a surface plywood compression board assembly fastened into the roof deck.

2. **To additionally strengthen the building's roof structure, in shear and diaphragm resistance** , by locking the individual wood, metal, or composite plank deck panels together in a picture frame around the perimeter of the building. The hurricane back wrap picture frame composite double deck improves the building's resistance to hurricane wind forces, earthquakes, impact damage, snow, and ponding water loads.

3. **To provide a durable perimeter work platform for future work on the building exterior** with a waterproofing membrane adhered to a perimeter plywood board. Where does most roof damage take place? At perimeter and penetration edges where their angles change terminations and flashings experience building movement and damage from workmen and equipment.

4. **To increase energy efficiency** by stopping external and internal air pressure differentiations from horizontal air flow into the roof assembly: air infiltration into the roof assembly horizontally from perimeter and through roof deck penetration open ends causes an increase of convection air currents in the roof assembly that causes energy losses.

5. **HBW Air Airseal is used for up to 150 MPH applications**

6. **Fastening Patterns** vary but as a general rule, 2' x 8' OSB is used for buildings less than 40' and it has ten fasteners per board. If the building is 40' or more, a 4' x 8' OSB Compression Board is used and fastened with fourteen fasteners per board.

7. **Metal Decks** need to be 22 gauge minimum, and ALWAYS use 2" seam plate washers on Compression Board fastening.

8. **Gypsum and Tectum decks** require 2001 Co. peal rivets and a 2" seam plate washers on the Compression Board.

9. **Concrete decks** require pre-drilling and #15 screws, split bulb drive in anchors or peal rivets.

10. **Always gap** OSB or ply wood boards about 1/8" or the thickness of a #15 screw.

11. **The HBW Airseal** is used for perimeter and penetration air seals.