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## 2001 Co. Compression Board

### Air Seal Application Technique Benefits-Introduction

(Only Used in States Allowing Petroleum Based Non-Low VOC Bonding Adhesive

**MUST NOT Use Low VOC Bonding Adhesive For This System)**

**Increases the buildings structural shear resistance similar to a lid on a “Tupperware Box”.**

The compression board perimeter picture frame of the roof deck locks out horizontal air infiltration into a roof assembly and structurally strengthens the building’s perimeter by installing a double deck compression structure where 90% of wind up lift pressure occurs.

Benefits and requirements of the Compression Board Air seals: (Field membrane 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 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 compression board 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.

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5. **Compression Board Airseals are used for Up to 80 MPH warranty applications.**
6. **Fastening patterns** vary but as a general rule 2' x 8' OSB is used for buildings less than 30' high and it has ten fasteners per board. If the building is 30' or more, a 4' x 8' OSB Compression Board is used and fastened with fourteen fasteners per board.
7. **Metal decks** need to be minimum 22 gauge and always use 2" seamplate washers on Compression Board fastening.
8. **Gypsum and Tectum decks** require 2001 Co. peel rivets and a 2" seamplate washer on the Compression Board.
9. **Concrete decks** require pre-drilling and #15 screws, split bulb drive in anchors or peel rivets.
10. **Always gap** OSB or plywood Compression boards about 1/8" or the thickness of a #15 screw for moisture expansion.
11. **Compression** Boards are used as perimeter and penetration air seals.
12. **Never use Low VOC bonding adhesive for the Compression Board Airseal**

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