AirBond
Double Backer
Heat Transfer System
Conventional Systems – Inefficient & Inconsistent Heat Transfer

- Poor surface area contact
- Inconsistent pressure across full width
- Uneven & varied heat transfer
- Multiple Mechanical Components – Mechanical Linkages / Springs Providing Inconsistent Performance
- Variable board quality
- Reduced corrugator speeds
- High maintenance cost
- Increased wear on belt and hot plates
- High starch & steam application
- Reduced Board Calliper & Edge Crush
AirBond – Heat Transfer Comparison

Side View

Plan View

Weight Rolls

Heating Plate

AirBond Module

Heating Plate
AirBond – Heat Transfer Comparison

Side View
- Shoes
- Heating Plate

Plan View
- AirBond Module
- Heating Plate
AirBond Control

- Corrugator not running.
- AirBond inactive.

- Corrugator running average width.

- Corrugator running narrow width.
- Corrugator running full width.
AirBond – Even Heat Transfer With Heat & Moisture Release Through Shoes
AirBond – Cross Section

AirBond Cross Section

Moisture Release Enabled Via Vented Shoes

Exit AirBag
AirBag Support Fret Plate

Entry AirBag
AirBag Support Fret Plate

Board Direction
AirBond Control

Variable Load Control

AirBond Module

Heating Plate

Steam Pressure Control

AirBond Independent Or Integrated Control

Simple Operator Touchscreen Control
AirBond Closed Loop Temperature Control Wrap Arms Option
AirBond Heat Transfer System – Installation Example – RollerBond / AirBond

Steam Zone 1
Steam Zone 2
Steam Zone 3

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

RollerBond - Heating Section
AirBond - Heating Section
AirBond - Traction Section
AirBond – Example Layout
AirBond Customer Results Feedback

Corrugator Speed Increase
5% – 25%

Waste Reduction
0.5% – 1.5%

Conversion Throughput Increase
2% – 8%

Lower Maintenance Costs

Reduced Customer Complaints

Minimize Energy & Glue Consumption
Before & After **AirBond** Installation - Digital Pressure Test Comparison

**Before AirBond:**
Inconsistent pressure application across width. Warp, varied quality and reduced corrugator speed!

**After AirBond:**
Even pressure, minimum starch and steam application, maximum corrugator running speed, flat board!
Before **AirBond** – Uneven Heat Transfer Resulting In Warp Issues
After AirBond Installation – Even Heat Transfer / High Speed / High Quality / Flat Board
AirBond Double Backer Heat Transfer System

Superior Patented Design – Replaces Weight Rolls & Shoe Systems – Efficient Heat Transfer – Consistent Quality

Increased Corrugator Speed – Reduced Waste – Reduced Steam & Starch – Fast Return On Investment – Quick Installation