

# Complete Dock Sealing Guide

---

Achieve maximum environmental control at the loading dock on all four sides of the opening, both inside and outside.

# Air gaps at the loading dock are bad news for your business.

Poor sealing leads to...

Quality inspection concerns

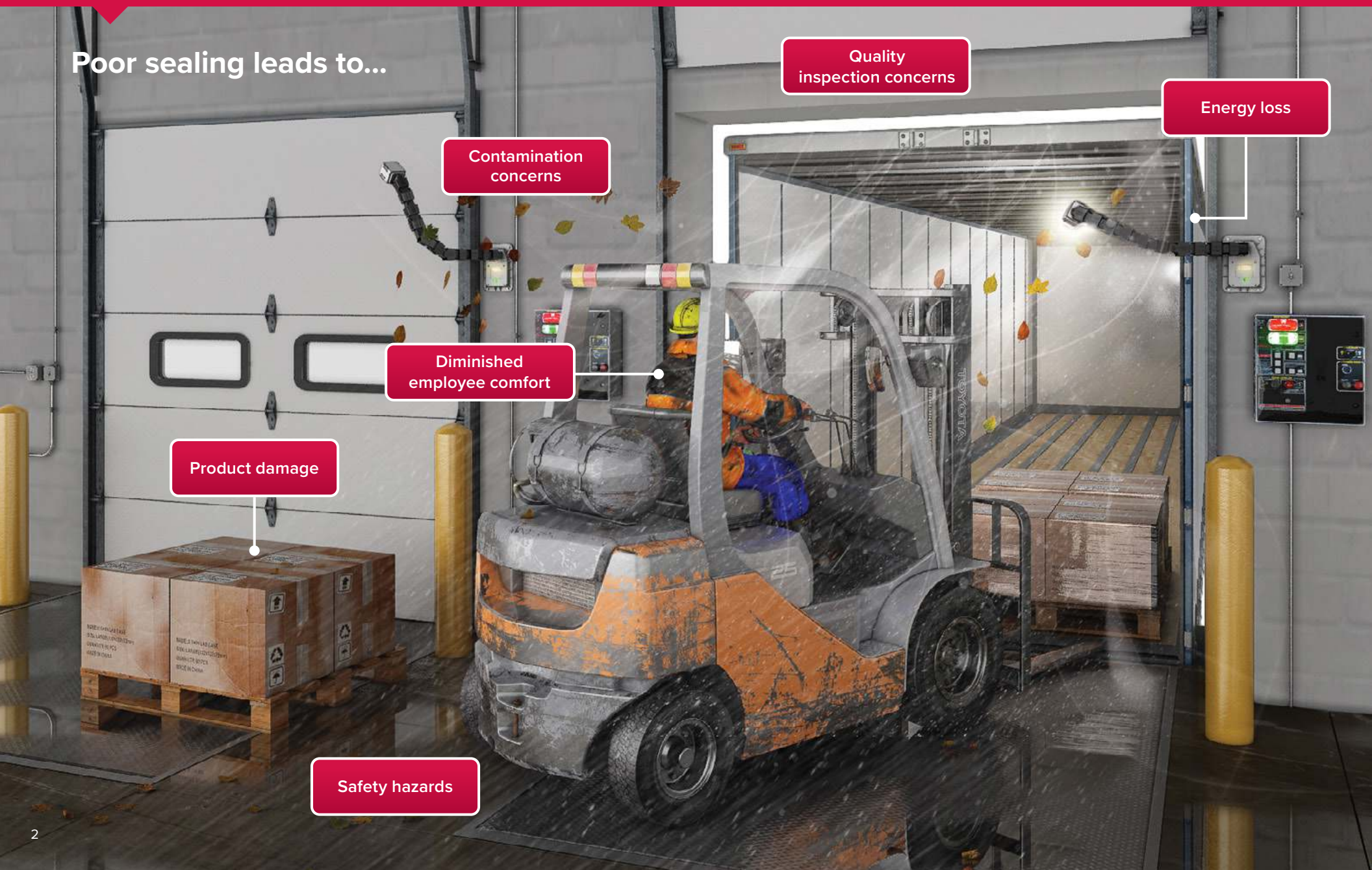
Energy loss

Contamination concerns

Diminished employee comfort

Product damage

Safety hazards



## Sources of Sealing Challenges

Wide variety of trailer sizes, especially variability in height



Different trailer configurations



## The Rite-Hite Approach What we do for you:

1

Analyze your  
current condition

2

Apply the appropriate  
combination of products to  
produce the best seal possible  
**on all four sides of the opening,** ►  
both inside and outside

3

Deliver an effective  
solution that protects  
your bottom line

# Seal Trailer Tops and Sides

## Dock Shelter Applications



Gaps at top and corners of head curtain

**Eclipse**<sup>®</sup> weighted header and side curtains work together to create a complete seal across trailer top and upper corners.



Eclipse header seals the gaps, blocks the light



Exposed trailer door hinge gaps



Hinge gaps sealed with GapMaster hooks

**GapMaster**<sup>®</sup> sealing hooks seal trailer door hinge gaps.



**Left unsealed**, hinge gaps amount to a 2.5 sq. ft. hole in the wall.

## Dock Seal Applications



Trailer protrusions

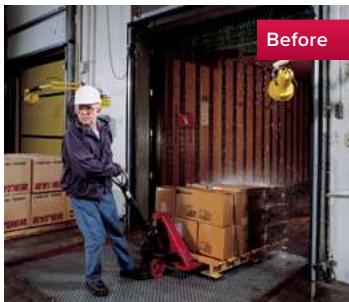
**High Performance** dock seal headers seal gaps from trailer protrusions.



Gaps from trailer protrusions in dock seal header



High Performance header seals the gaps, blocks the light



## Existing Seals or Shelters

**RainGuard®** weighted trailer top seal fits over existing dock seal or shelter to protect against rain, dust, wind and other harmful elements.

# Seal the 4<sup>th</sup> Side: At dock levelers and bumpers

## Outside



Open dock leveler pits invite the infiltration of bugs, dust, pests and debris



PitMaster® X Under-leveler Seal encloses open dock pits

## Inside



Open gaps at dock leveler corners allow unwanted elements to enter and expensive energy to escape



Lip Corner Seals block the light and seal the gaps

## Vertical Leveler Application



Open gaps between the dock face and trailer allow contamination, infiltration, and increased energy costs



With the VHLS dock sealing system, gaps are sealed for effective environmental control on the dock



Gaps around bumpers



Filler pad with bumper cover



Gaps at raised bumpers



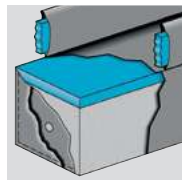
BumperTopper™ seals

## Small gaps add up

Inside your dock, anywhere you see daylight there's a gap to be filled, and a product to fill it.

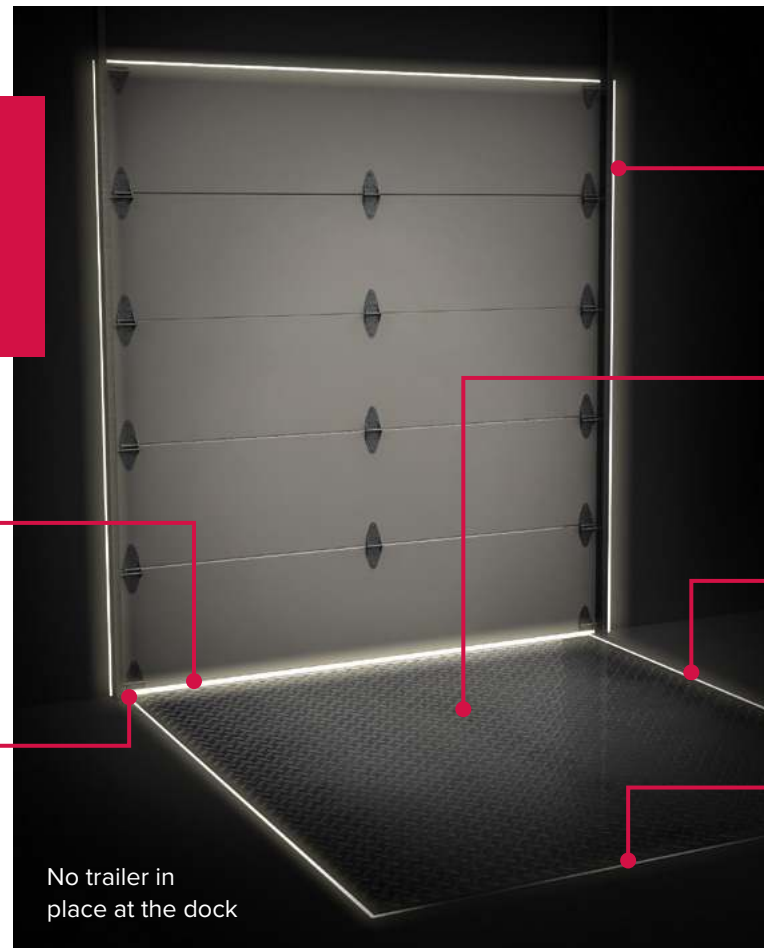
### Gap-Sealr™

Seals uneven surfaces between leveler and sectional door



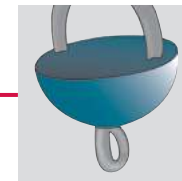
### Wedg-It™

Fills the gap between leveler, dock pit wall and bottom edge of sectional door



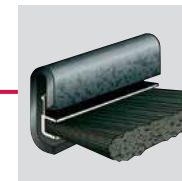
### Rite-Seal™

Seals door gaps when trailer is not present at the dock



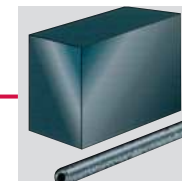
### Lanyard Cup Weather Seal

Stops air penetration through leveler lanyard cups



### Leveler Weather Seal

Seals gaps along sides of leveler



### Rear Hinge Seal

Seals gaps at back of leveler plate

# What are your gaps costing you?



Hinge gaps

**\$600 – \$1,200**

annually per dock position



Top and corner gaps

**\$200 – \$400**

annually per dock position



Beneath and around  
dock leveler

**\$300 – \$900**

annually per dock position



Leveler and door gaps


**\$500 – \$1,000**

annually per dock position

---

**TOTAL \$1,600 – \$3,500**  
annually per dock position

# Energy Loss and Savings Analysis



## Dock Seal and Shelter

### Energy Loss & Savings Analysis

#### Client Information

**Prepared for:**  
ABC Company  
John Smith  
Location: Receiving

**Nearest city with climate information:**  
Milwaukee, Wisconsin, United States

#### Dock Environment

**Current Air Gap**  
Dock Door Width: **9.0 feet**  
Dock Door Height: **10.0 feet**  
Trailer Width: **8.5 feet**  
Trailer Height: **13.5 feet**  
Bumper Protection: **4.0 inches**  
Hinged Doors on Trailer: **Yes**  
Free Area: **15.2 sq. feet**

**Heating Conditions**  
Fuel type: **Natural Gas**  
Inside Temperature: **65 °F**  
Hours dock door is open per working day: **8.0 hours**  
Number of work days per week: **5.0 days**  
Fuel Cost: **0.72 \$ / therm**

**Cooling Conditions**  
Type of cooling: **Air Conditioning**  
Inside Temperature: **75 °F**  
Hours dock door is open per working day: **8.0 hours**  
Number of work days per week: **5.0 days**  
Cost of Electricity: **0.08 \$ / kW-hr**

#### Annual Savings Potential Per Dock Position

Existing Systems	Heating Losses	Cooling Losses	Total Losses	
Shelter with open hinge gaps	\$1,923	\$104	\$2,027	
No Under-leveler Seal				

Recommended Solutions	Heating Losses	Cooling Losses	Total Losses	Annual Savings Potential Per Dock Position
Eclipse Dock Shelter with Pitmaster	\$136	\$6	\$142	\$1,885
Eclipse Dock Shelter without Pitmaster	\$824	\$24	\$848	\$1,179
GapMaster Dock Shelter without Pitmaster	\$1,103	\$45	\$1,147	\$880

Savings calculations are relative to the existing enclosures and seals.

Your Rite-Hite Representative can conduct free Energy Loss and Savings Analyses, demonstrating savings potential at the loading dock and throughout your facility.

# More Energy Saving and Environmental Control Solutions



## Zoneworks® Curtain Walls

Flexible fabric systems are customizable to virtually any situation. Ideal for temperature separation, humidity control, odor or dust containment, sound attenuation, and many other applications.

## Rite-Hite® HVLS Fans

Offer a year-round fundamental change in building environments, keeping people cooler in summer and warmer in winter. High volume low speed fans can also help reduce energy consumption and costs.

## FasTrax® High Speed Doors

Can match virtually any interior, exterior, high-wind, clean, cooler or freezer high-cycle application. Reduce the complexity of maintaining multiple door models in one facility.

**RITEHITE**  
ALWAYS LOOKING AHEAD

R19CSB0324AMEH2

Milwaukee, Wisconsin USA

[www.ritehite.com](http://www.ritehite.com)

P 414-355-2600 (800-456-0600)

F 414-355-9248

Rite-Hite®, Eclipse®, RainGuard®, Zoneworks®, GapMaster®, Performer®, PitMaster®, BumperTopper™, Gap-Sealr™, Wedg-It™, Rite-Seal™, and FasTrax® are trademarks of Rite-Hite Holding Corporation. Rite-Hite products are covered by one or more U.S. patents with other U.S. and foreign patents pending. Patent coverage: [www.ritehite.com/patents](http://www.ritehite.com/patents). The information herein is provided as a general reference only regarding the use of the applicable products. The specifications stated here are subject to change. Manufactured by: Rite-Hite Environmental Enclosure Corporation.