THE BUILT IN VALUE OF THE R8000 SERIES REEFER TRAILER

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E-mail: buzzhagen@directchassis.com  Http://www.directchassis.com
### GENERAL

<table>
<thead>
<tr>
<th>Length</th>
<th>Exterior: 53'</th>
<th>Interior: 52.2'</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td>Exterior: 102.36'</td>
<td>Interior: 98'</td>
</tr>
<tr>
<td>Height</td>
<td>Exterior: 13.6'</td>
<td>Interior: 10.4'</td>
</tr>
<tr>
<td>Door Opening</td>
<td>Width: 96'</td>
<td>Height: 103'</td>
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</table>

### REEFER BODY CONSTRUCTION

- **Side Sheets**: 0.040" pre-painted white aluminum side sheets with corrugation.
- **Side Posts**: 1.13" high extruded aluminum I-beam on 32" centers nose through landing gear and 24" centers landing gear to rear.
- **Top Rails**: Unique top rail consists of two pieces heavy-duty extruded aluminum rails for stronger structural and easier maintenance.
- **Roof**: One-piece 0.040" thick aluminum sheet with corrugations. Embedded roof bows eliminate any heat-bridge effect for better insulation.
- **Roof Bows**: 1.13" high extruded aluminum I-beam on serrated surface on 32" centers pre-rived to form an integral frame for greater stiffness and prevent deformation.
- **Nose**: 0.050" pre-painted white aluminum front sheet with a large refrigeration unit opening. All-stee plate for stop/start durability.
- **Rear Frame**: The sturdy comb-style rear frame is designed and fabricated of formed aluminum. Completely recessed for stop/start durability.
- **Rear Doors**: 0.050" pre-painted white aluminum outer sheets. Riveted door panel design, bonded Sandwich foam junctions, and a multi-light gusset provides better insulation. One easily operating hot-dip galvanized lock rod and live heavy-duty extruded aluminum hinges per door are standard. Rivet nuts and lock bolts for anti-theft and strength. A removable grab handle is installed left hand door.
- **Linings**: Sides: 0.060" Versitex (VR2) Front: 0.060" Versitex (VR2) Ceiling: 0.060" Versitex (VR2)
- **Foam & Insulation**: Computer program-controlled high pressure polyurethane injection system fills every inch space of mould without cavitation. 2" thick sidewalls, 3" thick roof and rear doors and 2.5" thick floor.
- **Refrigeration**: Super-strong nose structure with hot-dip galvanized unit frame.

### UNDERFRAME

- **Upper Coupler**: 4-1/4" deep full-width upper coupler with a rolled-lip is fabricated with high strength steel, including 316" thick approach plate, 1/4" thick grid plate, and 316" main channels. The new type coupler is tested to exceed AAR requirements. AAR, Kinger.
- **Crossmembers**: 4" deep heavy-duty extruded aluminum I-beams on 12" centers with tractor's tire protection plate between the upper coupler and landing gear. 4" deep high-strength steel 60ksi yield I-beams on 12" centers over the landing gear and the upper side rails. 5" deep heavy-duty extruded aluminum l-beams on 12" centers in bay area. Three extra 4" high steel-- l-beams on 6" centers and seven extra I-beams on 10" centers at rear 72" provide exceptional strength for impact of severe loading and unloading conditions.

### Floor

1-1/4" heavy-duty extruded aluminum duct floor with special keelung surface for all direction anti-slip. 16,000 lbs rating. Hot-dip galvanized I-beams provide 48" into the duct at the rear 72" width of the trailer for fork lift impact. Flush rear gutter. 0.040" thick Versitex (VR1) subfloor.

### Scuffbands

12" high heavy-duty extruded aluminum with channel at the top for recessed lining. Faster-er design prevents moisture and water entry and provides greater durability.

### Landing Gear

Two speeds, 50,000 lbs capacity with 10" square cushion footpad. Roadside crank handle. AAR-ratied. Hot-dip galvanized I-beaming and skirt plates with butts.

### Rear Bumper

Hot-dip galvanized rear bumper features a pre-punched anti-skid surface and recessed recess area for compartmentalization. Bolt-on to rear door seal and side rails result in easier maintenance, meets O.D.T. requirement.

### SUSPENSION

- **Slidersubframe**: Air ride slider with anti-dock-walk suspension consisting of 48-inch wide side boxes and 48-inch spread. Quick-draw pin pull mechanism.
- **Wheels**: Steel hub flared disc wheels 22.5x8.25 with outboard mounted brake drums. Powder-coated white.
- **Tires**: 295/75R22.5
- **Axles**: 5" round axle, parallel spindle, 71.5-inch axle track.
- **Brakes**: 16.5x7-inch brakes with Abex brake lining, extended long life.
- **Wheel Ends**: Stieber PPS Plus - 5-year warranty.

### BRAKE & ELECTRICAL SYSTEM

- **ABS System**: 25-1M. Non-shear gladhams, overload mounted on RS nose.
- **Wiring Harness**: Phillips moisture resistant and long life harness. 7-way with spigots.
- **Lights**: Truck-Lite LED lights. Three (3) stop/tail and turn lights each side are fully recessed in subframe.

### PAINT & FINISH

- **Undercoating**: Steel Crossmembers pre-coated with wax coatings prior to installation. Landing gear and running gear areas painted with black non-hardening rust preventative.

### DECALS & MISCELLANEOUS

- **Decals**: Installation FHWA inspection sticker and customer furnished decals.
- **Warranty**: Limited five-year warranty. Contact sales for further details.

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**Driving New Value, Moving the World**
R8000 SERIES

- COOL GLOBE (R8000B) -- Basic and Standard
- COOL STAR (R8000L) -- Light weight
- COOL PLANET (R8000D) -- Deluxe with Extra Insulation
- COOL GALAXY (R8000M) -- Multi-Temperature Controlled
- COOL LUNAR (R8000P) -- Pups or Doubles (28’+28’) & Rocky Mountain Doubles (48’+48’)

Planet

Star

Galaxy

Globe
## REEFER TRAILER STANDARD SPECIFICATIONS

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>COOL GLOBE</th>
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<tbody>
<tr>
<td></td>
<td>R8000B</td>
<td>R8000L</td>
<td>R8000D</td>
</tr>
<tr>
<td></td>
<td>Basic and Standard</td>
<td>Light weight</td>
<td>Deluxe, Extra Insulation</td>
</tr>
</tbody>
</table>

### General Information
- U.S. Certified Serial Plate

### General Dimensions
- Overall Length 53’
- Overall Width 102.36”
- Overall Height 13'6”
- Coupler Height 47”
- 36” Kingpin Setting
- Landing Gear Setting 145” Nose/Centerline

### Insulation
- Sidewall 2”
- Sidewall 2.5”
- Roof 2.5”
- Roof 3”
- Roof 2.5”
- Roof 3”
- Nose 4”

### Sidewalls
- 0.040” PPW Aluminum Corrugated Side Sheets
- 0.050” PPW Aluminum Corrugated Side Sheets
- High Strength Extruded Aluminum Top & Bottom Side Rail
- 1.13” Extruded Aluminum J-Uprights on 12” Centers LG to Nose, 24” Rest

### Roof
- 0.032” One-Piece Smooth Bare Aluminum Sheet
- 0.040” One-Piece Smooth Bare Aluminum Sheet
- 1.13” Extruded Aluminum J-Shape Roof Bow
- Roof Bows on 24” Centers Spacing
- Roof Bows on 32” Centers Spacing

### Nose
- 0.026” High-Gloss Stainless Steel Nose Sheet
- 0.050” PPW Smooth Aluminum Nose Sheet
- 5” Radius Extruded Aluminum Nose Corner with Stainless Steel Corner Cover
- High Strength Steel Nose Uprights
- Nose Prepare for Carrier or Thermo King Reefer Unit

### Rear Door
- Frame Type Rear Door Panels with Multi-Folder Tight Compression Seal Gaskets

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<td>Deluxe, Extra Insulation</td>
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<tr>
<td>0.050” PPW Aluminum Smooth Outer Door Skin</td>
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<tr>
<td>0.026” High-Gloss Stainless Steel Outer Door Skin</td>
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<tr>
<td>Five (5) H.D. Extruded Aluminum Hinges &amp; One Lock Rod Per Door</td>
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<tr>
<td>One Swing Vent with Interior Screen on the Lower CS Door</td>
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<tr>
<td><strong>Rear Frame</strong></td>
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<tr>
<td>Stainless Steel Rear Frame With Glass Bead Shot Surface</td>
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<tr>
<td>Hot-Dip Galvanized Steel Bumper With Anti-Skid Horizontal Surface, Bolt-On Style</td>
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<tr>
<td>One Pair Rubber Dock Bumpers on Rear Post (Outside Lights)</td>
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<tr>
<td><strong>Interior Lining/Floors/Scuffs</strong></td>
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<tr>
<td>FRP (Aumotuf) Linings</td>
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<tr>
<td>Versitex (VR2) Linings</td>
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<tr>
<td>1-1/4” Extruded Aluminum Duct Floor with 16,000 LBS Floor Rating</td>
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<tr>
<td>1-1/8” Extruded Aluminum Duct Floor</td>
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<td>48” Long Extruded Alum I-Inserts in Center 72” Width of the Floor, Apitong Stringer Full Length</td>
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<td>Front and Rear Gutters, with Drains, Install Four Dock Plates over Rear Gutter</td>
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<tr>
<td>0.040” Versitex (VR2) Subfloor</td>
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<tr>
<td>12” High H.D. Extruded Aluminum Scuffbands</td>
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<tr>
<td><strong>Underframe</strong></td>
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<tr>
<td>4-1/4” Deep Upper Coupler with AAR Kingpin</td>
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<td>4” Deep Aluminum I-Beam on 12” Centers Forward of LG, with Tractor Tire Protection Plates</td>
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<tr>
<td>Five (5) 4” Deep Steel I-Beam Crossmembers on 12” Centers Over LG</td>
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<tr>
<td>5” Deep Extruded Aluminum I-Beam on 12” Centers in Bay Area</td>
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<tr>
<td>4” Deep Strength Steel I-Beam Crossmembers on 12” Centers over Slide Rail, with Extra Three Beams</td>
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<tr>
<td><strong>Landing Gear</strong></td>
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<tr>
<td>SAF-Holland CMS Series with RS Crank Handle and 10” Square Cushion Foot, Outboard Mount</td>
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<tr>
<td>Hot-Dip Galvanized K-Bracing &amp; Skirt Plates with Bulges</td>
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<tr>
<td><strong>Suspension</strong></td>
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<tr>
<td>Holland CS4000 Series Air Ride Slide With Posilok, 77.5’ Track and 49’ Spread</td>
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<tr>
<td>216” Slide Rail Length with 96” Suspension Travel</td>
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<tr>
<td><strong>Axles</strong></td>
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<tr>
<td>Parallel Spindle with 58” Wall Thickness</td>
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<tr>
<td>Haldex Automatic Slack Adjuster and Air Brake Chamber</td>
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<td><strong>Tires/Wheels</strong></td>
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<tr>
<td>Hankook TL01 295/75R22.5 Tires</td>
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<tr>
<td>8.25”x22.5” Steel Disc Wheel with Powdercoat, Hub Piloted, 5 HH</td>
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<tr>
<td>8.25”x22.5” Aluminum Disc Wheel with Outside Polished Inside Mill</td>
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### Wheel Ends
- KIC Long Stud Hub Piloted Cast Steel Hub/Drum
- Stemco PPS Plus-5-Year Warranty Axle End Condition

### Brake System
- Wabco 2S-1M ABS System
- Non-Swivel Glad-hand, Surface Mounting On Lower RS of The Nose

### Wiring And Lights
- Phillips Seal and Long Life Wiring Harness
- 7-Way Electrical Receptacle with Split Pins and Nylon Box, Overlaid Mounted on Lower RS of The Nose
- Truck-Lite Super Series LED Lights, DOT Min Required Qty (Exc. Three Stop/ Tail/ Turn Lights Each Side)
- DOT Min Required Conspicuity Tape

### Refrigerated Unit Service
- Customer Furnished Refrigerated Unit and Accessories (Fuel Tank, Battery and Air Return Bulkhead etc.)

### Miscellaneous
- Aluminum VIN Plate on Nose
- White Mudflaps with CIMC Logo
- Truck-Lite #97960 Card Holders

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Stainless Steel Rear Frame
The sturdy comb-style rear frame is specially designed and fabricated of formed stainless steel. Completely recessed buckleplate for Stop/Tail and Turn lights. Rustproof glass bead shot stainless steel and hidden welds for good looks and durability.

Rivetless Rear Doors
Pre-painted white aluminum rear door is standard. Optional high-gloss stainless steel door skin for best appearance. Aluminum door frame and bonded sandwich foaming features provide lighter weight and maximum insulation capacity. Rivetless door panel design and multi-ply tight seal gaskets provide extra insulation and longer durability.

Heavy-duty Sidewalls
Standard reefer side skin constructed of pre-painted white aluminum sheets with corrugation and extruded aluminum J-post uprights with serrated surface provide extra strength. These combined applications including foam primer achieve the highest strength-to-weight ratio and effectively prevent delaminating.

Tension Roof Skin
One-piece bare aluminum roof sheet with special ridge by roll-forming and embedded J-beam located on 32” centers full length of the trailer is standard. All edges are covered and sealed around top rails to prevent moisture intrusion and assist with thermal efficiency.

Unique Two Part Top Rail
The unique two part top rails integrate to form the top rail and cable trunking. The combined rail provides increased stiffness and strength without increase weight. The integral trunking allows harness arrangements and locations for LED lights. It eradicates any paths for moisture penetrating into by eliminating holes or sealing of cables and easier maintenance.

4-1/4” Deep Standard Coupler
4-1/4” deep full-width upper coupler with a rolled-lip is fabricated with a 67 ksi approach plate and kingpin plate and two 80 ksi main channels. The new type coupler with kingpin is tested to exceed AAR requirements.

Crossmembers
4” deep heavy-duty extruded aluminum I-beam with tractor tire protection plates forward of Landing Gear, 5” deep extruded aluminum crossmembers in bay area and 4” deep I-beam steel over the Landing Gear and slide rails are standard. This structure greatly increases base strength and reduces tare weight of trailer while providing greater durability.

Landing Gear and Bracing
Lighter and stronger Landing Gear with two speeds is standard. Support legs are braced by 3” formed channel “K” bracings and skirt plates with bulges for high stiffness and strength. All accessories of LG are hot-dip galvanized steel and bolt-on style for anti-corrosion and easy repair.

Air Ride Suspension
A ten long stud hub-piloted wheel end assembly, on a tandem axle air ride suspension is standard. The standard 216” long slide rails and 96” suspension travel provide more versatility, for weight distribution, maneuverability and bridge law compliance.

Sturdy Rear Bumper
The super sturdy hot-dip galvanized steel rear bumper meets D.O.T. requirements. Bolt on the rear sill and slide rails for absorbing impact effectively. It features a pre-punched anti-skid surface for safety and easy access. A recessed area for conspicuity tape application protect from abrasion.
**Extra Strength Nose**

Standard nose has the high strength structure with heavy-duty extruded aluminum rails, corners and pre-painted white aluminum nose panel. All-steel posts that were riveted to top and bottom rails provide extra-strength. Hot-dip galvanized refrigerated unit frame provides best anticorrosion.

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**Bottom Rear Gusset**

A special-shaped shear plate is bolted onto the rear frame and the last three crossmembers to create a strong rear frame / bottom rail connection. In this high stress area, stainless steel Huck-bolt fasteners are used for the rear gusset, shear plate on the inside and rear frame, which results in substantial strength and convenient maintenance.

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**High-Strength Floor System**

1-1/4” deep extruded alum duct floor with knurled surface is fully welded to seal out moisture and provide extra strength without excess weight. Outer floor seal provides easy access to air and electrical lines. Hardwood is used as floor sill over each crossmember full length for higher strength. Extruded alum I-beam inserts reinforce the center 72” width at rearmost 48” of floor. A one-piece FRP subfloor seals external moisture out.

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**Sidewall and Roof Linings**

One-piece Versitex (VR2) sidewall and roof linings without fasteners are standard. Their edge joints insert and stick to extrusion channel of PVC top side angle with self-holding function to provide maximum resistance from moisture entry. A computer controlled high-pressure injection system and a rivetless design provides void-free, greater durability and extra insulation capabilities, with exceptionally smooth interior walls.

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**Heavy Duty Scuffband**

A standard 12’ high, extruded aluminum integral scuffband with fastener-hidden design, corrugated surface and channel in top for liner extends full length to the nose. A variety of heights up to 18” and also a heavy-duty 24” scuffband are available. These can provide greater protection against fork truck damage and reduces maintenance cost.

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**Gutters and Rear Guiding Dock Plates**

Front and rear gutter with two drains respectively are standard. Four rear guiding dock plates are installed to prevent fork trucks from impacting the rear of floor ducts, providing additional durability to assist in preventing future maintenance cost.

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**Huck-Bolt Connection**

Huck-bolt is used to coupler and base rail, T-Clips and base rail at rear etc. severe stress areas. It provides exceptional strength and anticorrosion.

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**LED Lights**

All top lights are large LED series. Two front clearance lamps, front side marker lamps and rear side marker lamps, three rear identification lamps and three stop/turn/tail lamps with flange each side are standard. It provides longer life service and lower maintenance cost in comparison to using standard incandescent lighting.

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**Wiring System**

Sealed, internally grounded and long life harness is adopted on standard reefer trailer. “Plug” style backup is very convenient for maintenance.

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**Exterior Mount Interface Box**

Surface mounted box provides easy access to both air and electrical connections for reduced maintenance costs. Extruded aluminum fixed plate and lower “hat” section stainless steel to prevent rust, and protect lines from damage during coupling. A special built-in wire and air pipe separator ensures all lines safe with good appearance.
R8000 SERIES STANDARD FEATURES

- Two H.D.G. Lock Rods
- Rear Door Vent w/ SST Screen
- Multi-Folder Door Seal Gasket
- Combination Mid-Turn Lamp
- Rear Door Bumper
- Rivetless Top Side Angle
- License Plate & Light
- SST Door Grab Handle
- 3”-Wide Hinge with Three Holes
- Rubber Dock Bumper
- Huck-Bolt at Bottom Rail
- White Mud Flaps
- Stemco Axle End w/ 5-Yr Warranty
- Large Diameter Drain
- Round Card Holder
- SST Chain & Hook Type Door Holdback
- Front Coupling Protection

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R8000 SERIES OPTION FEATURES

- Alum Wheels
- Three Lock Rods
- Quilted SST Rear Door
- Nose Vent
- SST Nose Pedals
- SST Front Panel w/ SST Rivet
- SST Rear Door Outer Skin
- Refrigerated Unit Installation
- PVC Stringer
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Http://www.directchassis.com