

# HALE

## TRAILER

### BRAKE & WHEEL



**A020955-A020966**



**VIN: 468801-468812**

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**800-232-6535** \*FINANCING AVAILABLE

#### GVWR

GVWR:	Trailer to meet 68,000 Pound GVWR
VIN PLATE:	US - VIN Plate to Read in English (Standard)
* Product Type:	HT Thermotech-Truck Load w/Roll Up Door
Product Class:	HT Thermotech TL

#### GEOMETRY

Length - Exterior:	53'-0"
** Length - Interior:	52'-0"
Width - Exterior:	102.36"
** Width - Interior:	95.4"
Height - Exterior:	13'-6"
** Height - Interior:	102"
** Deck Height:	Target Operational Deck Height 53" w/ 17.5" Ride Height
* Fifth Wheel Height:	48"
King Pin Location:	36"
Landing Gear Location:	105" from King Pin (+ 1"/-1/4")

Rev.B

#### TIRES & WHEELS

Tire Furnished:	Factory Furnished
* Tire Manufacturer:	Michelin XTE(G), Low Rolling Resistance Tire
* Tire Size:	11R22.5
Wheel Furnish:	Factory Furnished
Wheel Material:	All Steel Wheel
Wheel Manufacturer:	HT Standard (TCC 361)
* Wheel Size:	8.25 x 22.5, 2-Hand Hole (Steel, Inner & Outer)
Wheel Finish for Steel:	Powder Coated White Steel Disc
Tire Stem Valve Position:	Dual Wheel Steel / Aluminum / Combo (STD 180°outboard & straight inboard)
Wheel Finish for Aluminum:	None (Due to All Steel Wheel Application)
Valve Stem & Cap:	Valve Stem & Metal Dome Cap

#### UPPER COUPLER

Upper Coupler-Reefer:	4.00" deep, Floor Over Coupler and Running to Front, Bolting Type
Approach Plate:	3/16" thick 80,000 Lb Yield - 6 Support Channels
King Pin (BTM Main) Plate:	1/4" thick 80,000 Lb Yield
King Pin & Manufacturer:	Standard (Jost) AAR Cruciform King Pin
Front Bottom Rail:	Stainless Steel & Stainless Steel Wrap-Around Impact Guard Striker Angle

#### BODY/BASE

Forward Crossmember:	4" Extruded Aluminum I-Beams: 12" C/L
* Landing Gear Crossmember:	4" Steel I-Beams (80,000 PSI) : 8" C/L (6" On Forward Edge : 7ea)
Bay Area Crossmember:	5.5" Extruded Aluminum I-Beams : 12" C/L
* Running Gear Crossmember:	4" Steel I-Beams (80,000 PSI) : 12" C/L with 8" C/L Last 6'
* Slider Body Rail (RV):	256" Rail Length
Slider Rail Supplier:	Hutchens Slider Rails
Slider Rail Duty:	Standard Duty
Slider Rail Hole Space & Dia.:	4" increments holes with large diameter holes (Hutch & Binkley)
* Tire Protect Plate:	Front-12 GA Galv steel x22"x55" long or the nearest XM / Rear-12 GA Galv steel x22"x120" long (Fastener Type)

Rev.C

Rev.C

- \* Tire Protect Install: Behind Upper Coupler & Tandem Area at Both Side
- \* Fuel Tank Location: One Mounted behind Landing Gear, with fuel line conduit thru landing gear, forward & UC
- \* Fuel Tank Furnish: Customer Furnished Carrier Fuel Tank
- Fuel Tank Size: 50 Gal and 22" Diameter
- Fuel Tank Install: Cap to be 8" inboard from bottom rail (MFC's Recommended STD)
- Fuel Tank MT'G Method: Manufacturer's Recommended MT'G

#### **FLOOR**

- Floor- Assembly Method: Aluminum Floor Assembly with Weld (MIG). Seams to be Continuously / Uniformly Weld
- \* Floor-Detail Spec. - RV: 1.34" Extruded Aluminum (6061-T6) NW Flat Floor
- Floor-Surface Spec. - RV: Ridged Floor Surface with Safety Grip (Knurled)
- \* Rear Gutter & Trough: Flush w/ Top of Floor & w/ Front Trough. No Rear Trough
- \* Floor Ratings - RV: 20,000lb Rated Floor
- Floor Drain - RV: (4) Drains w/ Kazoo
- Floor Filler Mat'l: I-Filler (Ridge PVC)
- \* Floor Inserts -RV: Extruded Aluminum 48" long x 72" wide in center
- \* Threshold Plate-RV: (3) 0.19" Al Diamond Plate 24" X 24" at rear floor to reinforce floor where dock plate sits. fully welded.

#### **FRONT**

- \* Front Corner Radius: 6" Extruded Aluminum (RV) with Recessed at Road Side For Reefer indicator Lamp.
- Front Panel & Color - RV: 0.04" Aluminum Prepaint White w/ Aluminum Insert
- Corner Radius Insert - RV: 0.04" Aluminum Prepaint White
- Front Posts: (4) Posts - (2) 3.15" Deep Steel Hats / (2) AL "Z" Post
- Gladhands: Phillips Qwik-E with Filters Control Line Only. Overlaid(Back open)+ aluminum plate
- Front Receptacle(7-Way): Phillips 7-Way w/ 3" Deep, No Circuit Breaker (HT Reefer STD)
- Gladhand/7-Way Location: Overlaid on Lower Roadside Front
- \* Corner Radius Protector: (2) 0.125" X 18" Alum Diamond Plate Each Side at Top
- Reefer Unit Front Frame: Brace for type "A" (Large Opening)
- \* Front Air Return Bulkhead Supplier: Customer Furnished
- \* Front Air Return Bulkhead Spec.: Air Return Bulkhead
- \* Indicator Lights: Install Customer Furnished Temperature Indicator Lights
- \* Option - Indicator Lights: Recessed in Pan on Roadside Radius Front Corner

#### **RV-VAN TRIM**

- Reefer Unit Manufacturer: Carrier
- \* Reefer Unit Type: Multi-Temperature Type
- \* Reefer Unit Spec.: Carrier Multi-Temp
- \* Reefer Unit Furnish: Customer Furnished
- Reefer Unit Install: Factory Install
- \* Reefer Commissioning: Commission unit at Factory
- \* Evaporator Furnish: Customer Furnished
- \*\* Evaporator-Configuration: (1) Carrier MHD-2200 Full Width, Dual Discharge & (1) Carrier MHS-1000 (Single Blowing w/ Half Width)
- \* Evap - Location by Side: (1) Evaporator on Road Side (LH) in Width & (1) Evaporator in Full Width
- \*\* 1st Evap - Location/Distance: 1st evaporator: 282" from Front Interior wall to the leading edge of the evaporator
- \*\* 2nd Evap - Location/Distance: 2nd Evaporator: 126" from Rear Door Interior to Trailing Edge of evaporator
- \* 1st Evap. - Air Blow Direction: 1st Evaporator blowing direction : Toward Front and Rear of Trailer
- \* 2nd Evap. - Air Blow Direction: 2nd Evaporator blowing direction : Toward Front of Trailer
- \* Evap - Drain Configuration: Evaporator to have (2) Drain on Roadside & (1) Drain on Curbside, drain tube cup in side wall to be recessed with flange mounted outside, over the lining and sealed around edges for moisture resistance into foam
- \* Evap- Trough Location: Located on Roof
- \* Evaporator Guard Furnish: Customer Furnished
- \*\* Evaporator Guard Spec.: (1) Carrier Evaporator Guard half width for MHS & (1) Carrier Evaporator Guard full width for MHD

**SIDE**

- \* Side Material: 0.05" Aluminum Prepainted White w/ natural color rivets
- \* Side Posts: 1.5" Deep Extruded Aluminum "Z" Post
- \* Side Post Centers: 12" C/L Full Length
- \* Side Top Rail: Heavy Duty Side Top Rail for Thermotech
- Side Bottom Rail: Side Bottom Rail for Reefer 5.5" High Bay Crossmember - TL Thermotech
- \*\* Side Rub Rail: (2) Alum Exterior Rub Rail (E15-032 One 1-1/8" Tear Drip) on Each Side-Total 4.  
Locate Bottom as close as possible to 18# above side baserail top row butted to top rail.
- Fasteners to Bottom Rail: Standard Rivets to attach C/Members to the Side Bottom Rail

**REAR**

- \* Rear Frame: Roll-Up Door Reefer Rear Frame
- \* Rear Door Opening Spec.: Roll Up Door - HT Standard Reefer Door Opening Application
- Corner Post Feature: Standard
- Door Sill Level (RV): Door to Flush with Floor (HT STD)
- Door Sill Feature: Standard
- Door Header Feature: Standard
- \* Door Type (RV): Whiting Roll Up Door - Cold Saver III, 2" thick
- \* Door-Outer Cover (RV): Roll Up Door-Manufacturer's Specification-See Roll Up Door Spec.
- \* Door-Inner Lining (RV): Roll Up Door-As per Door Manufacturer's Standard Application
- Option - Door Install Instruct (RV): Standard Door Installation Per Manufacturer's Recommendation
- \* Option - Door Hold Back (RV): None (Roll Up Door)
- \* Rear Underride Guard: 4" Tube Bolt on Assembly w/ Bolt on Perforated(Poched) Horizontal. Rear Impact Guard (RIG30-NEW)
- \* Option - Horiz Member/Other: Construction of two pieces standard stitch welding
- Underide Bolt Spec.: Stainless steel bolts & nuts - Optional
- \* Step & Under Ride Accessories Option: Bolted Step-Curbside, Bolted vertical post extension to the rear sill
- \* Dock Lock Option: Bolt On K-Brace (Dock Lock) at Center
- Dock Bumper: Pair 3 X 5.88 HT High Performance Polyurethane Radius Bumper ATRO Black Color
- Rubber Bumper Location: Inboard of Light Protector Bars (Standard)
- \* Rear Corner Post Grab Handle: (1)Grab Handle-Curbside 36" Long Integral to Roll-Up Door Post (Outer)
- \* Track Protector: 12Ga x 36" High Galvanized Steel Roll-Up Door Track Protector

**LEFT GATE****ROOF**

- Roof Panel: 0.025" One Piece Corrugated Aluminum
- Roof Bow: 1" Extruded Aluminum
- Roof Bow Centers: 32" Centers Full Length

**LINING/SCUFF**

- \* Side Lining - Reefer: Polar X PPO70 0.063"
- \* Front Lining - Reefer: Polar X PP060 0.051"
- \* Roof Lining - Reefer: Polar X PPO60 0.051"
- Sub-Floor: Polar X Pp030 0.023"
- Side Scuff Mt'g Method: Recessed (STD)
- \*\* Side Scuff for Reefer: 3/16" x 24" High Extruded Aluminum-Heavy Duty, w/Flashing Side (Heavy duty) w/ 1/4" Flashing Side(Heavy Duty) and 6" and 18" High Full Width HDPE Back Plate
- \* Front Scuff for Reefer: 22" High Extruded Aluminum
- \* Logistic Track for Reefer: (2) Row of "A" Track, Galvanized, Both Side
- \* Logistic Track Mt'g Method: Semi-Recessed (Horizontal), full length both side
- \*\* Logistic Track Locate: Located at 36" & 78" Floor to Centerline of Track

**URETHANE INSULATION**

- Front Insulation: Front Insulation - 4" Polyurethane
- \* Side Insulation: Side Insulation - 3" Polyurethane
- \* Roof Insulation: Roof Insulation - 4" Polyurethane
- Floor Insulation: Floor Insulation - 2.5" Polyurethane

\* Door Insulation: Roll Up Door-See Manufacturer's Door specification

**LANDING GEAR**

\* L/Gear Spec.: Jost HT451.G3.17.157 Magnum 10 Year Warranty Full HDG  
L/Gear Mt'g Method: Inboard Mounting (Standard)  
L/Gear Shoes: 10" X 10" RCF (Removable Cushion Foot) Low Profile  
L/Gear Ground Clearance: Nom. 12" Ground Clearance  
L/Gear Mt'g Bracket: Hot Dip Galvanized Large Wing Plate  
L/Gear Crank Handle: Roadside  
L/Gear Options: None (HT STD)  
L/Gear Cross Brace Design: HT Standard Cross Brace attachment Design

**RUNNING GEAR**

Bogie Type: Sliding Tandem(2) Axle Bogie  
Axle Spacing: 49" Axle Spacing  
\* Axle ABS System: Tandem Axle w/4S2M ABS System  
Bogie & Axle Location: Location to be Sliding Tandem Axle for specified slider Length w/Stop Bars @ Front & Rear  
Option-Related Bogie Stopper Feature: STD plug stopper  
\* Susp. Manufacturer: Meritor  
Suspension Capacity: Standard Duty  
\* Meritor/Reyco Susp. Specification: Meritor Sentry (MPA40) 40k Air Ride  
\* Surelok (Anti-Dock): No Surelok (No Anti-Dock)  
\* Susp. Dump Valve: Manual Dump Valve  
Locking Pin Mechanism: Air-Assist Pin Puller or Quik Draw  
\* Susp. Sub-Frame: Supplied by Meritor  
Type of Susp Spring: Air Bag  
Spring Specification: Air Bag  
\* Axle Supplier: Meritor  
\* Axle-General Spec.: Axle - Tandem (2) Axle included in Suspension (For 4S2M System)  
Axle-Track Length: 77-1/2"  
Axle-Spindle Type: Tapered Spindle  
\* Brake Lining Size: Disc brake with loose parts  
\* Brake Lining Spec.: Disc Brakes  
\* Brake Control System: 4S/2M Wabco ABS  
\* Spring Brake Control: Sealco 110800 Springbrake Priority  
Brake Cont-Hose & etc.: Standard Air Line & Hose Application (US&Canada)  
\* Slack Adjuster Spec.: None Due to Air Disc Brake Application  
\*\* Brake Chamber Spec.: Meritor for disc brake; bolted to Caliper 50mm bolt w/Meritor axles (Meritor EX+ LS)  
\* Stroke Length: None due to Air Disc Brake  
\* Hub Specification: Conmet 10 Stud Hub with Rotor  
\* Drum Specification: None Due to Air Disc Brake Application  
Hub/Drum-Opt(Nut&Other): Standard  
Bearing Specification: Stemco  
Lubrication Spec.: Chev Delo Gear EP5 80-90 oil  
Wheel Seals Spec.: Stemco Platinum Performance Plus, Discover Seals, Sentinel Hub Cap, Pro-Torq Nut  
\* Tire Inflation Spec.: Meritor PSI Tire Inflation System w/ Thermal Alert  
Tire Inflation Pressure: 100 PSI  
\* Tire Inflation Lamp Location: Indicator PSI Light at Roadside Mounted over corner radius. (STD location)  
\* Tire Inflation Lamp Spec.: 33 Series Lamp  
\* Elect. & Park Brake Interlock: Install Elect. Standby & Pneumatic Park Brake Interlock :460VAC without toolbox

**ELECTRICAL**

\* Harness-General Spec.: Molded Color Code Phillips Harness (Sta-Dry) with Locking Device connector  
Harness-Special Feature: Manufacturer's Standard Feature  
Front Light: (2) Phillips 51-HY37323 Amber 3/4" Penny, PC Rated  
Rear ID Header Light: (3) Phillips 51-HY37322 Red 3/4" Penny, PC Rated

Rear Side Marker Type(Shape):	Mini Button Style Lamp with Antitheft Bracket	
Rear Side Marker Detail Spec:	(2) Phillips 51-HY37322 Red 3/4" Penny, PC Rated w/anti-theft hardware	
Rear Side Marker MT'G Location:	Mounted on Standard Location on Rear Corner Post - HT STD	
* S/T/Tail Light-Quantity & Type:	(4) Phillips Round Style or Equivalent	Rev.C
	<b>Comment:</b> Note for Customer: (2) Lamps per side	
S/T/Tail Light-Detail Spec:	(4) Phillips 51-HY40202 4" Round STT w/Flange-Red	
Main Mid-Turn Light:	Install the Mid turn lamp	
Mid-Turn Mounting Method:	Mounting Bracket	
Main Mid-Turn Light-Detail Spec:	(2) Phillips 51-HY60303-0 LED 6.5" Oval MidTurn/Marker - Amber Surface Mount with Stainless Steel Rivets	
ABS Light Detail Spec:	(1) Phillips 51-HY37323 Amber 3/4" Penny, PC Rated w/anti-theft hardware	
ABS Light MT'G Location:	Mounted on Standard Location on Rear Corner Post - HT STD	
* License Light:	(1) Phillips 51-HY37721-0 (Button Style, Clear) with Grommet (19mm Hole Required)	
* Dome Lamp Switch:	Recessed Toggle Switch at Lower Rear Curbside & Pressure Switch-Tramec 38046X (HT STD)	Rev.B
Electrical Related Regulation:	Standard Application	
* Interior lights-Special Instruction:	Black Circuit: Power from Clearance, Side marker & ID Lamps	
* Side Dome Lamp Gen Spec.:	Install Phillips LED Dome Lights	
* Side Dome Lamp Detail Spec.:	Phillips 51-22221 LED Motion Sensor Domelights	
* Side Dome Lamp Quantity:	Install (4) Four	
* Side Dome Lamp Mt'g Method:	Flush Mount Down with Recessed Housing	
** Side Dome Lamp Location:	Mounted on roadside wall evenly spaced, approx. 12" from ceiling to C/L of light	

**MARKING/DECALS**

HT & Product Type Decal Package:	Hyundai Logo & Product Type Decals Application(For not having pre-painted white panels for side/door/front, Apply white HT Corporate decals)
* Decal Package:	Customer Furnished Owner Decal Package, Specified in Notes
* Decal Opt 1-Additional Decal:	Specified in Notes
	<b>Comment:</b> Customer Furnished MDI Decal Package per Bryson Hill 11/15/2023
Decal Opt 2-Decal Location:	Standard Application
Decal Opt 3-Decal Installation:	Standard Application
Decal Opt 5-Decal Location-reefer:	Standard Application
Decal Opt 6-Decal Installation-reefer:	Standard Application
Conspicuity Vendor:	3M
Conspicuity Markings:	Hyundai Standard Conspicuity with Logo Applied to Side Bottom Rail
License Plate:	Temporary For Delivery. Fasten on SUS Mounting Plate
License Plate Brk't Install:	Standard Install Location - Roadside Below Door Sill
Furnish Document Holder:	Factory Furnished
Document Holder Detail Spec:	(1) Phillips 16-802
Document Holder/Manifest Loc.:	Overlaid on Lower R/S Front

**PAINT/FINISH**

Upper Coupler Finish:	Stainless Steel-Forward Section w/ Black Undercoating inside of Upper Coupler
Crossmembers Finish:	HDG : ALL Steel Crossmembers including Hat C/M, L/G & Bogie Area (Except any Aluminum)
* Axle & Components Finish:	Black Undercoating
* Susp. Sub-Frame Finish:	Black Undercoating
L/Gear(K-Bracing) Finish:	Hot Dip Galvanized
L/Gear(Upper Leg) Finish:	Hot Dip Galvanized
Rear Frame-Finish:	Stainless Steel
Rear Frame-Paint Color:	None (For Galvanized or Stainless Steel)
* Rear Underride-Finish & Spec.:	Hot Dip Galvanized & Bolted Horizontal Member
Rear Underride-Paint Color:	None (For Galvanized or Stainless Steel)

**MISCELLANEOUS**

Mudflap Provider:	Factory Furnished Mudflaps
Mudflap Specification:	24"x30" White Plain Plastic with Hyundai Logo 3/8# thick with Anti-spray ribs
Mudflap Mounting Location:	Suspension frame (Tandem/Single axle frame without P.H.)
Mudflap Mounting Method/Install:	STD Location w/ H.D Washer Retainer

**DISCLAIMER**

Specifications are believed to be correct, but may contain errors and/or omissions. Photographs are the representative of the subject equipment but may not be identical. Equipment availability, prices and specifications are subject to change without notice.