

# HALE

## TRAILER

### BRAKE & WHEEL



A029504-A029525  
VIN: 479601-479622

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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/Swing Door
Product Class:	HT Thermotech TL

#### GEOMETRY

Length - Exterior:	53'-0"
** Length - Interior:	52'-2"
Width - Exterior:	102.36"
** Width - Interior:	95.4"
Height - Exterior:	13'-6"
** Height - Interior:	102"
* Deck Height:	Operational Deck Height 52" - 54"
* Fifth Wheel Height:	48"
King Pin Location:	36"
Landing Gear Location:	105" from King Pin (+ 1"/-1/4")

#### TIRES & WHEELS

Tire Furnished:	Factory Furnished	
** Tire Manufacturer:	Michelin XMET2(G), Low Rolling Resistance Tire	Rev.B
* 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:	Install Alligator Cap on PSI Check Port Hose	Rev.B

#### 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) : 9" C/L (6" On Forward Edge : 7ea)	Rev.B
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" x length to cover entire running gear area (Snap in Type)	

- \* 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 w/ USFLS
- 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 Prepainted White w/ Aluminum Insert
- Corner Radius Insert - RV: 0.04" Aluminum Prepainted 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 Permalogic w/20 AMP Circuit Breakers
- Gladhand/7-Way Location: Overlaid on Lower Roadside Front
- \* Corner Radius Protector: (2) 0.125" X 18" Smooth Alum 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

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#### RV-VAN ITEM

- Reefer Unit Manufacturer: Carrier
- \* Reefer Unit Type: Multi-Temperature Type
- \* Reefer Unit Spec.: Carrier Multi-Temp
- Comment:** Install Customer Furnished Carrier Lynx telematics power control switch
- \* Reefer Unit Furnish: Customer Furnished
- Reefer Unit Install: Factory Install
- \* Reefer Commissioning: Commission unit at Factory
- Comment:** Please refer to special customer instruction on provided thumb drive for carrier reefer commissioning
- \* Battery: Customer Furnished Battery
- \* Battery Spec: Carrier
- \* Evaporator Furnish: Customer Furnished
- \* Evaporator-Configuration: (1) Carrier MHD-2200 (Full Width, Dual Discharge) & (1) Carrier MHS-1100 (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: Please see next row
- \* 1st Evap - Location/Distance-2: 1st evaporator: 303" from Front Exterior wall to the C/L of the evaporator.
- \* 2nd Evap - Location/Distance: 2nd Evaporator: 487" from Front Exterior wall to Centerline of evaporator just ahead of RU door in the up position
- \* 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

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- \* 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.: (2) Carrier Evaporator Guards, (1) for MHD-2200 (Full Width) & for (1) MHS-1100 (Half With)
- \* Evap - Tubing Protector: Install Customer Furnish Brace Diagonal 3 Ribs Front Evaporator Tubing protector From Host Unit.

**Comment:** Box guard included with reefer machine from Carrier dealer

#### **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.  
Installed 18" from top of side bottom rail to bottom of rub rail & just below side top rail.
- Fasteners to Bottom Rail: Standard Rivets to attach C/Members to the Side Bottom Rail

#### **REAR**

- Rear Frame: Swing Door Reefer Rear Frame (w/1 Lock Rod per LH & RH Door)
- Rear Door Opening Spec.: Swing Door - HT Standard Reefer Door Opening Application (97.2" Width).
- 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): Swing Door w/ Aluminum Frame & (1) Rubber Door Bumper on Each Door (HT Standard)
- Door-Outer Cover (RV): Swing Door-0.04" PPW Aluminum Outer Cover Sheet
- Door-Inner Lining (RV): Swing Door-PP050 (0.043") Polar X
- \* Door Scuff: Install 0.19" Extruded Aluminum x 16" high rear door scuff
- \* Option - Door Install Instruct (RV): Do NOT Include Anti-Theft Features on hinges (use torx screw & cotter pin)
- \*\* Option - Door Hold Back (RV): Standard for Swing Door. Additional Chain & Hook Between Doors
- Hinges: Four (4) Aluminum Hinges per Door
- \* Additional Hinge Option: Additional One(1) Aluminum Hinge (Total 5 Per Door)
- \* Rear Underride Guard: 4" Tube Bolt on Assembly w/ Bolt on Perforated(Pooched) 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: (2)Grab Handle-Low Profile, Install between 1st & 2nd Hinges, 2nd & 3rd Hinges on C/S Post

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#### **LIFT GATE**

#### **ROOF**

- Roof Panel: 0.025" One Piece Corrugated Aluminum
- Roof Bow: 1" Extruded Aluminum
- \* Roof Bow Centers: 24" Centers Full Length

#### **LINING/SCUFF**

- \* Side Lining - Reefer: Polar X PPO70 0.063"
- \* Front Lining - Reefer: Polar X PPO70 0.063"
- \* Roof Lining - Reefer: Polar X PPO70 0.063"

- \* Sub-Floor: US LINER SILVERBACK SB1, 0.035#
- Side Scuff Mt'g Method: Recessed (STD)
- \* Side Scuff for Reefer: 3/16" X 22" High aluminum-heavy duty, with ¼# flashing side (HD) and full-length HDPE behind of each extruded.
- \* 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: Please see next raw
- \* Logistic Track Locate-2: 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: Swing Door-Insulation - 3" Polyurethane

#### **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 Diameter: 5"
- \* 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 iABS
- \* 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 EX+ LS for Disc Brake; Bolted to Caliper 50mm Bolt w/Meritor Axle
- \* Stroke Length: None due to Air Disc Brake
- \* Hub Specification: Conmet 10 Stud Hub with Rotor with Casting 10083541, Tapered Spindle

- \* 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 & Check Port Valve on Hose (CP Hose)
- Tire Inflation Pressure: 100 PSI
- \* Tire Inflation Lamp Location: Indicator PSI Light at Roadside Mounted at 24.6" from bottom of front panel 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

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#### **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
- Comment:** 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: Permalogic with (1) Phillips Momentary toggle Switch at Lower Rear Curbside
- Electrical Related Regulation: Standard Application
- \* 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: (4) 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
- Comment:** 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

**PAIN/PAINT**

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)

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**MISCELLANEOUS**

Mudflap Provider:	Factory Furnished Mudflaps
* Mudflap Specification:	24"x30" Eco Mudflaps w/o logo
Mudflap Mounting Location:	Suspension frame (Tandem/Single axle frame without P.H.)
Mudflap Mounting Method/Install:	STD Location w/ H.D Washer Retainer
Mudflap Bracket design:	1 Piece Bracket

**DISCLAIMER**

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Equipment availability, prices and specifications are subject to change without notice.