

3285cf 2-Bay 286K Covered Hopper

#14-12002

GENERAL SPECIFICATIONS

Exterior dimensions	37'2" Capacity	3,285cf
	41'10.5" Light Weight est	-
Center Sill Design	Through Gross Rail Load	286,000
Length between truck ctrs	27'4" Capacity in Tons	116
Width, extreme	10'71/8" Plate	C
Height, extreme	15'4"	
Year Built	2015	
Car Serial Number	TBA	
Ref Drawing Number	TBA	

GENERAL SPECIFICATIONS

COMMODITY Sand//Cement

General Purpose: YES Hazard Class: None

Commodity Stencil: None (TBD ARR)
Max Weight:(lbs/gal) TBA LBS per Sand

Remarks: Maximum lading weight of _____lbs based on _____CF and

GRL of 286,000lbs.

GENERAL INFORMATION

Extreme Height: 15.4"
Extreme Width: 10'8"
Est Lght Weight: 52,985lbs.
AAR Clearance: Plate C
GRL: 286,000 lbs

Curvature: Meets AAR standard Plate C & E Curvature Requirements.

A) On curve and uncoupled:

B) Coupled to like car – One one Curve & one on Tangent:

C) Coupled Base Car w/car on curve & base car on Tangent:

150

185

1,650

Remarks: Hopper car is designed to meet the AAR M-1001, M-1002, AAR M-1003 Chapter 7 requirements of 1,000,000 miles fatigue life for cars in General Interchange Service. This car is designed for low, medium to high sand/cement materials. This car is specifically designed to meet service environment of unit train and high utilization cars as defined by AAR M-1001 Chapter 7.

HOPPER

Stamped Spec: AAR LO
Drawing: Vertex FD
Est. Hopper Full: 98%

Slope Design

Floors Lower: 44"
Floors Upper: 40"
Center Partition: 44"/40"
Outside Hopper: 54"

Top loading: Round 30" Diameter Hatch Cover Arr: Steel, Duel Hinge Arrgnt.

Hatch Cover: ATP or TBA Hatch Battans: None

Hatch Cover Gaskets: Compression Type, ATP or TBD

Hatch Locks: 30149 Ireco or TBD

Skid Assembly: Two (2) piece cast skid assy; AAR M201 Gr. B+

Remarks: No grinding on Car Longitudinal Welds.

FITTINGS

Outlet Gates: Bolted, Gravity Slide, Capstan

Outlet Model: MKE-1051 Miner

Discharge Frame: 63"x27"3/8 Dist, Frame to Rail: 1'6.5"

Discharge Opening: 13"x42" nominal

Vibrator Brackets: Forged brackets, Bolted

MOUNTING

Card Holder Appl color: Black QTY (4) Side Handrails: Steel, grey.

End Assembly, A end: Galvanized Steel 8"x60"

End Assembly, B end: Galvanized Steel 8"x60" Brake Chain cut out. Safety Platform: IMI 2-Level: each end of car. (4) (Plate type)

Top Walkway: Galvanized Steel, 24", Morton.

Remarks: All gratings galvanized (Plate type)

UNDERFRAME

Sill Type: Through Sill Draft gear: AAR M-901E

Coupler Yoke: AAR SE60EE / AAR SY40AE with 16" low center plates

Bolster: 126 Degrees 5/8 web weldment. No coil cutouts

Remarks: Lifting provisions at Body Bolsters

<u>BRAKES</u>

Brake: NYAB TMB-60 Truck Mounted Brake System.

Empty Load System: NYAB TMB-60 Empty Load Device. Slope Sheet Mounted.

Slack Adjustor: AAR Group E Mechanical double acting automatic

Brake Levers/Beams: NYAB TMB Truck Mount System.

Hand Brake: NYAB CMI AAR Verticle Wheel w/66 Bell Crank-Long

Handle

Remarks: high mileage brake system.

TRUCKS

Type: 110 ton capacity. 5'10" wheel base.

Wheel Type: 36" DIA. One – Wear, H-36 or CH-36 Class C

Axle: 61/2" x 9" AAR M-101

Roller Bearings: AAR Standard Class "K" (pending)

S.F. & Bolsters: Cast steel grade "B+" Narrow Jaw Pedistal S.F's

Side Bearings: Stucki CCSB Metal Cap extended

Remarks: Column wear plates bolted only (pending)

PAINT & LINING

Cleaning Interior: Interior surfaces to be free of visible oil, dirt, dust, loose mill

scale and loose rust.

Lining, Interior: TBD

Exterior Prep: Grot Blast completed car exterior

Paint System: One (1) coat DTM Grey Epoxy 4-6 mills dft min. SSPC-SP6

Stenciled Spec: see above.

Stencil requirements: required DOT stencil & required AAR reporting marks

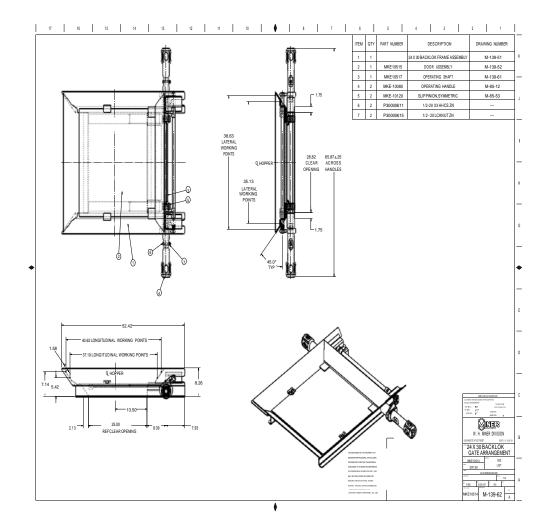
DATA BLOCK

Remarks: Riveted or bolted connections to have faying surfaces

painted prior to assembly. All markings to be decals. Anti-Skid coatings applied to tank within platform

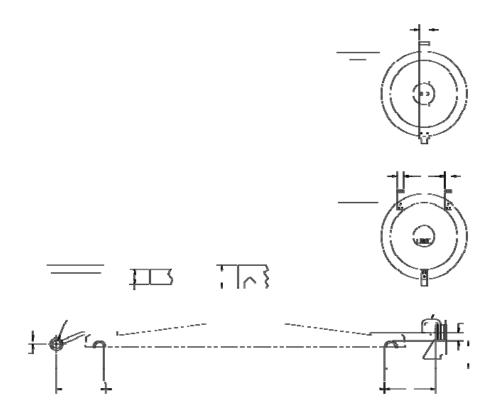
area. Gratings galvanized and not painted.

FITTINGS Bottom outlet gate

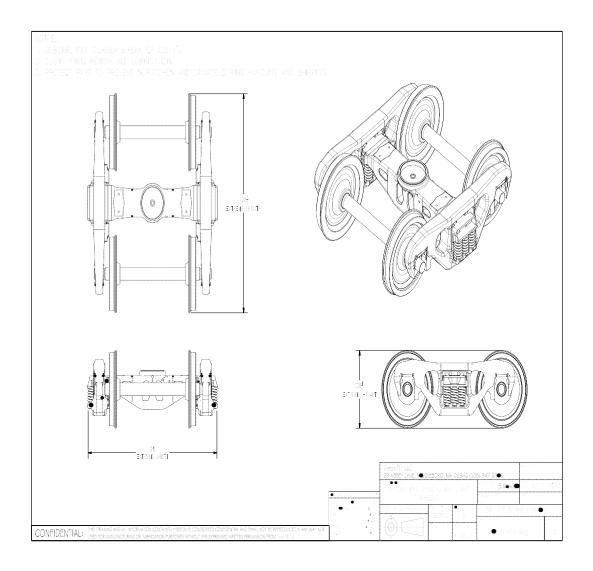


HATCH COVERS

http://www.aerotransportation.com/site/en/identification_drawings



TRUCKS 110TON, 286,000 GROSS RAIL LOAD



SPRING & JOURNAL PACKAGE

Freight Car Truck Springs, Recommended Groups For 2%, 3%, 31% and 4%, Inch Travel Springs With Load Carrying Snubber Springs

Alternate Standard 5-342-81

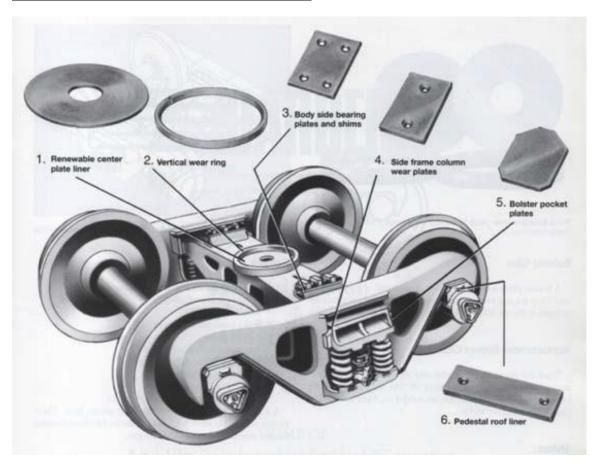
		BLE NO. 3 SIDE SPRIN	NGS	
SPRING TRAVEL	21/2"	31/16"	311/s*	4 1/4"
FREE HEIGHT (CENTER)	91/16"	9%	10 14" (OUTER COIL)	1013/6/joutes con
SOLID HEIGHT	6%6"	69/16"	69/16"	6%s*
6" X II" JOURNALS	5-OUTERS D-3 4-INNERS D-3 2-OUTER SIDE B-421 2-INNERS SIDE B-422	7-OUTERS D-4 2-INNERS D-4 2-OUTER SIDE B-432 2-INNER SIDE B-432	O O O O O O T-OUTERS D-5 3-INNERS D-5 2-OUTER SIDE B-432 2-INNER SIDE B-432	
* WEIGHT PER CAR SET 4 - GROUPS (LBS)	549	622	639	
SOLID CAPACITY (LBS)	83865	84124	83836	
6½°X 12″ JOURNALS	0 0 0 0 0 0 0 0 0 7-0UTERS D-3 2-NINERS D-3 2-0UTER SIDE 8-421 2-INNER SIDE 8-422	OOO OOO TOUTERS B-4 COUTER SIDE B-4333 FORMER SIDE B-4333	000 000 7-00TERS D-5 6-INNERS D-5 2-OUTER SIDE 8-433 2-NINER SIDE 8-433	7-OUTERS 0-7 5-INNERS 0-7 2-OUTER SIDE 5033 2-INNER SIDE 5034
* WEIGHT PER CAR SET 4 - GROUPS (LBS)	657	746	732	693
SOLID CAPACITY (LBS)	96709	97856	96448	101190
6½"X 12"			000	
JOURNALS BARBER HEAVY DUTY	1.30			
* WEIGHT PER CAR SET 4- GROUPS (LBS.)			685	
SOLID CAPACITY (LBS)		and ordered	97304	

⁺ THE WEIGHT PER CAR SET IS EXCLUSIVE OF SIDE SPRINGS WHICH ARE A PART OF THE FRICTION DEVICE.

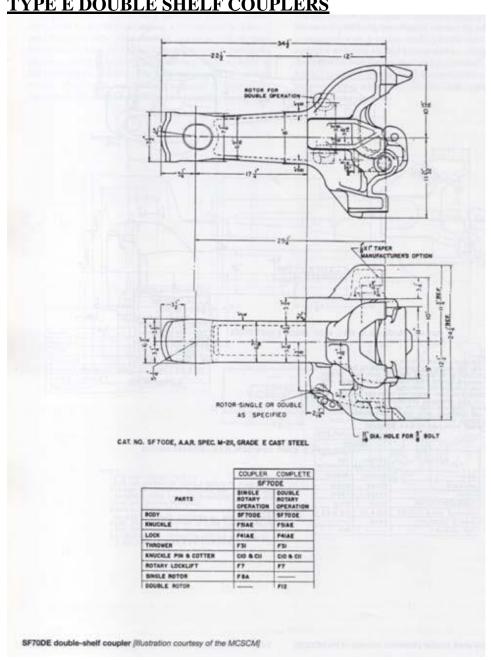
CCSB CONSTANT CONTACT LONG TRAVEL SIDE BEARINGS



TRUCK, WEAR PLATE PACKAGE



TYPE E DOUBLE SHELF COUPLERS



NYAB TMB-60 AIR BRAKE PACKAGE

