

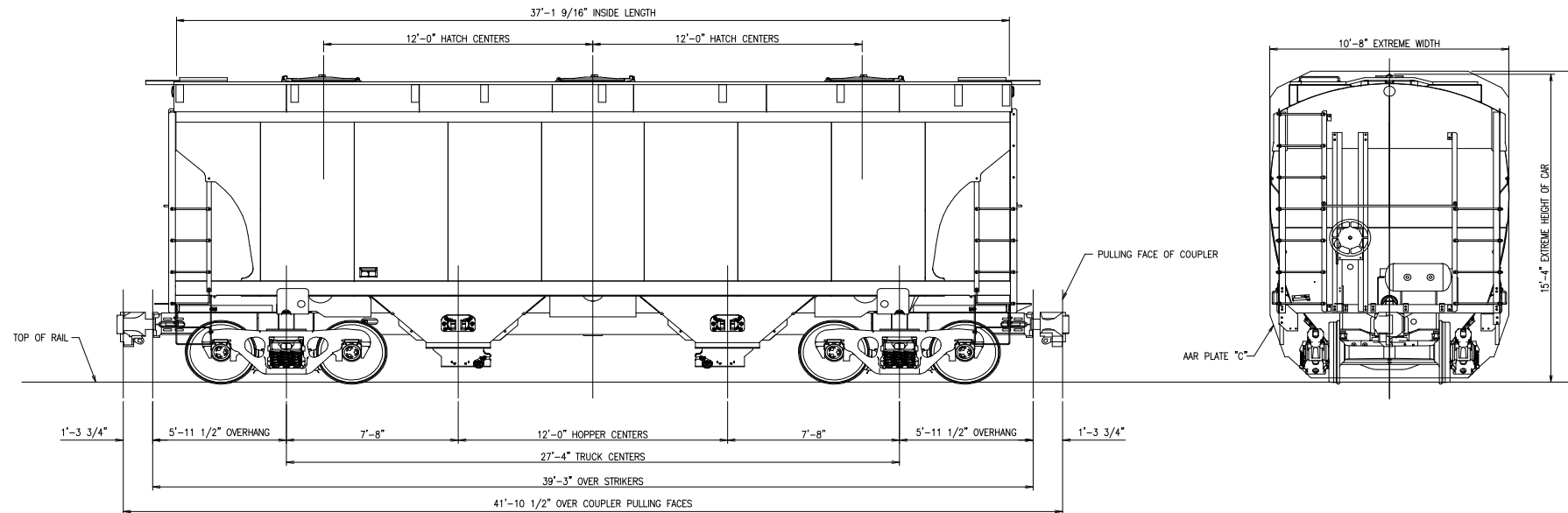


3281 Cubic Foot Capacity Hopper Car

FML TERMINAL LOGISTICS, LLC
LO-3281-20546

REPORTING MARKS & QTY:

Illustration for reference only



TrinityRail's railcar designs meet the requirements of paragraph 2.1.2.2 of Section C, Part II, Manual of Standards and Recommended Practices, Weight and Axle Spacing Criteria, however, individual railroads may have additional gross rail limitations for specific routes. The car owner/lessee should resolve these issues with the handling railroad(s) prior to finalizing the specification.

REVISION/DATE/ENGR:
4/07/2014, CCH
RFQ Release

GENERAL		TRUCKS		COATINGS	
Year Built	TBA	Wheels	Class "C" 1W 36", AAR 1B Tread Profile	Surface Prep.	
Car Serial Number - Low	TBA	Axles	AAR M-101 Grade "F", 6-1/2" x 9", Standard Forge	Exterior	SSPC-SP6
Car Serial Number - High	TBA	Roller Bearings	AAR NFL, Class "K", 6-1/2" x 9"	Interior	Sweep Clean
Ref Drawing Number	Z-042-2150	Adapters	6-1/2" x 9", per AAR M-976		
		Truck Side Frame:	Gr "B+" Steel to AAR M-203 & M-210	WALKWAYS AND PLATFORMS	
		Truck Bolster:	Gr "B+" Steel to AAR M-202, M-210 & S-305	Top	Galvanized Steel, 24"
		Center Plate Liners, Vert/Horiz	1-3/4" x 16" dia net, SST welded/Manganese	End	Galvanized Steel, 8"x 60"
DIMENSIONS AND WEIGHTS		Stabilizers	AAR M-976 Approved	ROOF HATCHES AND COVERS	
Center Sill Design	Through	Truck Springs	D5, 3-11/16" travel	Roof Openings	Three, Round, 30" Diameter
Inside Length	37'-1 9/16"	Pedestal Roof Liners	None	Hatch Cover Arrgt	Steel, Dual Hinge Arrgt
Length over Coupler Pulling Faces	41'-10 1/2"	Truck Side Bearing	Const Contact Long Travel	Hatch Cover	ATP
Truck Centers	27'-4"	Brake Beam	AAR No. 24	OUTLET GATES	
Inside Width	10'-7 5/8"	Brake Beam Wr Plt	Metallic	Outlet Type	Bolted, Gravity Slide, Capstan
Extreme Width	10'-8"	Brake Shoes	AAR 2" Comp	Outlet Model	MKE-10513 Miner
Extreme Height	15'-4"	Brake Shoe Keys	Forged		Powder Coated
Clearance Diagram, AAR	"C"	Roller Bearing Retainer Keys	None	FLOOR SLOPES	
Capacity, Cubic Feet	3281	AIR BRAKES		Floors, Lower	44°
Light Weight, lbs, est.	53,400	Type of Brakes	Body Mounted	Floors, Upper	40°
Maximum Gross Rail Load, lbs	286,000	Brake Cylinder Size	8 1/2" x 12"	Center Partition	44°/40°
Load Limit @ GRL	232,600	Braking Ratio-Loaded	Min 11%, Max 14%	Outside Hopper	54°
Capacity in Tons	116	Braking Ratio-Empty	Min 15%, Max 32%	UNLOADING ITEMS	
Innage/Fill Factor, %	98%	Braking Ratio-Handbrake	Min 10%	Vibrator Brackets	Forged Brackets, Bolted
Optimal Commodity Density	73	Empty/Load Device	Slope Sheet Mounted Canister, 40%	This specification may include items without a specific vendor designated. In those cases Trinity will maintain the discretion to select vendors based on best available price and delivery. Notes: This specification constitutes the quoted specification for the cars described herein, and supercedes all prior specifications.	
Commodity	Cement/Sand	Slack Adjuster	AAR automatic, double acting		
Curv., Horiz., Uncoupled	150'-0"	Handbrake	Group "N", Long Release Handle, Sheave Wheel		
Curv., Horiz., Coupled To Base Car	185'-0"	Hose Support	2 per car		
Curv., Vert., Uncoupled	500'-0"	DRAFT SYSTEM			
Curv., Vert., Coupled To Base Car	1650'-0"	Couplers	AAR SBE60EE, M & T		
		Yokes	AAR SY40AE, M & T		
		Coupler Carrier Wear Plate	AAR Manganese steel		
		Draft Gear	AAR M901E		