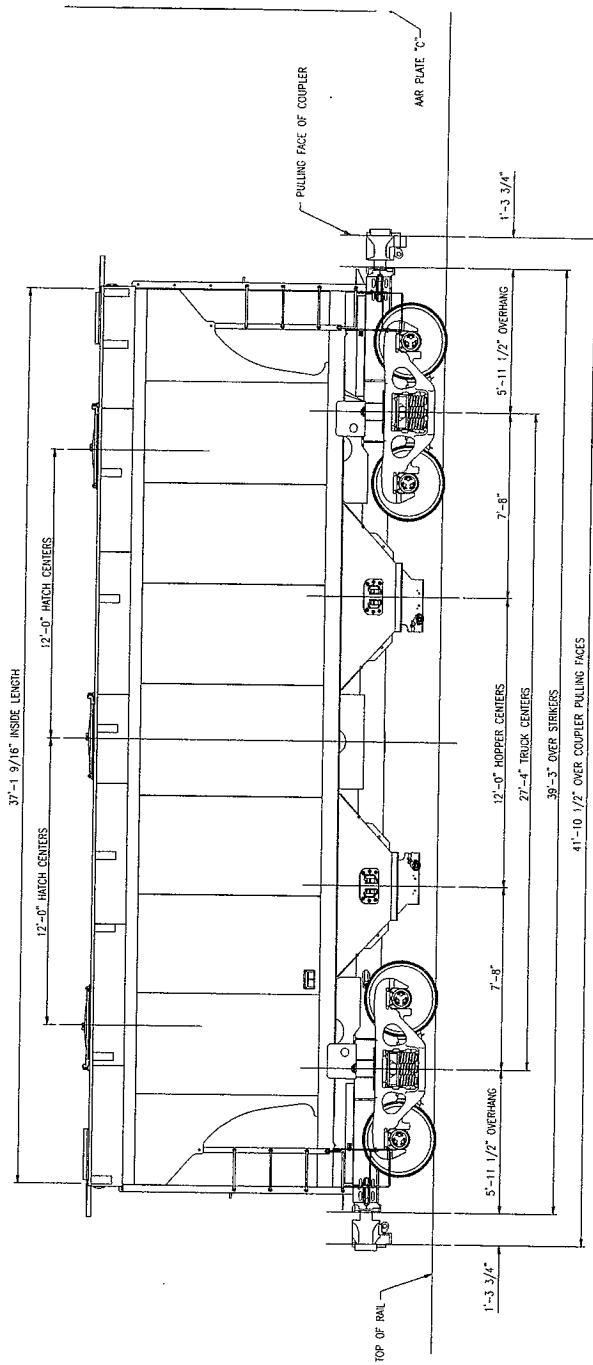


3281 Cubic Foot Capacity Hopper Car



GENERAL			TRUCKS	
Year Built	TBA	Wheels	Class "C" 1W 36", AAR 1B Tread Profile, C-H36L, Griffin	
Car Serial Number - Low	TBA	Axles	AAR M-101 Grade "F", 6-1/2" x 9", Std Forge	
Car Serial Number - High	TBA	Roller Bearings	AAR NFL, Class "K", 6-1/2" x 9", Brenco	
Ref Drawing Number	Z-042-2150	Adapters	6-1/2" x 9", Adaptor Plus, Green, 10601, ASF	
		Truck Side Frame:	Gr "B+" Steel to AAR M-203 & M-210, ASF	
		Truck Bolster:	Gr "B+" Steel to AAR M-202, M-210 & S-305, ASF	
		Center Plate Liners, Vert/Horiz	1-3/4" x 16" dia net, SST welded/Manganese	
		Stabilizers	Motion Control, ASF	
DIMENSIONS AND WEIGHTS				
Center Sill Design	GROUP 1	Truck Springs	D5, 3-11/16" travel, SCT	
Inside Length	37'-1 9/16"	Pedestal Roof Liners	None	
Length over Coupler Pulling Faces	41'-10 1/2"	Truck Side Bearing	Const Contact Long Travel TCC-III-60-LT, Miner	
Truck Centers	27'-4"	Brake Beam	AAR No. 24, Miner	
Inside Width	10'-7 5/8"	Brake Beam Wr Plt	Metallic, SCT	
Extreme Width	10'-8"	Brake Shoes	AAR 2" Comp, RRFP	
Extreme Height	15'-4"	Brake Shoe Keys	Forged	
Clearance Diagram, AAR	"C"	Roller Bearing Retainer Keys	None	
Capacity, Cubic Feet	3281	AIR BRAKES		
Light Weight, lbs, est.	53,200	Type of Brakes	Body Mounted, ABDX, Conventional Valve, Wabtec	
Maximum Gross Rail Load, lbs	286,000	Brake Cylinder Size	8 1/2" x 12"	

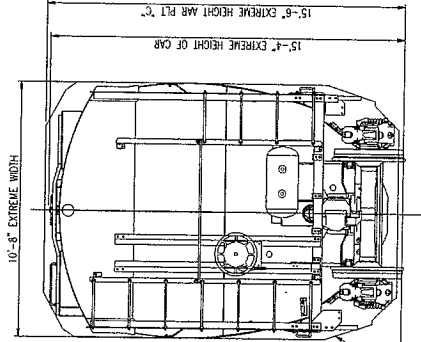
25	Load Limit @ GRL	232,800	Braking Ratio-Loaded	Min 11%, Max 14%	Floors, Lower
26	Capacity in Tons	116	Braking Ratio-Empty	Min 15%, Max 32%	Floors, Upper
27	Innage/Fill Factor, %	98%	Braking Ratio-Handbrake	Min 10%	
28	Optimal Commodity Density	73	Empty/Load Device	Slope Sheet Mounted Canister, 40%, Wabtec	
29	Commodity	Cement/Sand	Slack Adjuster	AAR automatic, double acting, Universal	
30	Curv., Horiz., Uncoupled	150'-0"	Handbrake	Group "N", Long Release Handle, Sheave Whl, Universal	
31	Curv., Horiz., Coupled To Base Car	185'-0"	Hose Support	Cable Strap, 20406 IRECO	Vibrator Brackets
32	Curv., Vert., Uncoupled	500'-0"			
33	Curv., Vert., Coupled To Base Car	1650'-0"			Notes:
34			Couplers	AAR SBE60EE, M&T	
35			Yokes	AAR SY40AE, M&T	
36			Coupler Carrier Wear Plate	AAR Manganese steel	
37			Draft Gear	AAR M901E, Miner TF-880	

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Base Car Specification

LO-3281-BASE

Illustration for reference only



REVISION/DATE/ENGR:
A 1/11/2011 AH
B23 was 53,000; D14 was ASF.

COATINGS	
SSPC-SP6	Paint and Lining:
	Exterior Waterbased, Gray, W-H
Sweep Clean	Interior
	None
WALKWAYS AND PLATFORMS	
Galvanized Steel, 24", Morton	End Galvanized Steel, 8"x60", Morton
ROOF HATCHES AND COVERS	
Steel, Dual Hinge Arrgt ATP	Hatch Battens
	Hatch Cover Gaskets
	Hatch Locks
	Hatch Hardware
OUTLET GATES	
Bolted, Gravity Slide, Capstan	Discharge Frame
MKE-10513 Miner	Dist, Frame to Rail
	Discharge Opening

FLOOR SLOPES			
44°		Center Partition	44°/40°
40°		Outside Hopper	54°
UNLOADING ITEMS			
Forged Brackets, Bolted			

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Built to Deliver®

3281 CUBIC FOOT COVERED HOPPER

TrinityRail® delivers a complete line of innovative railcars and components, comprehensive leasing and fleet management options, plus dedicated field service support. A fully integrated suite of transportation and logistics services; T-RAMS® TrinityRail Asset Management Solutions™ promotes improved fleet utilization, reduced working capital requirements, as well as more effective administration and management of your rail equipment.

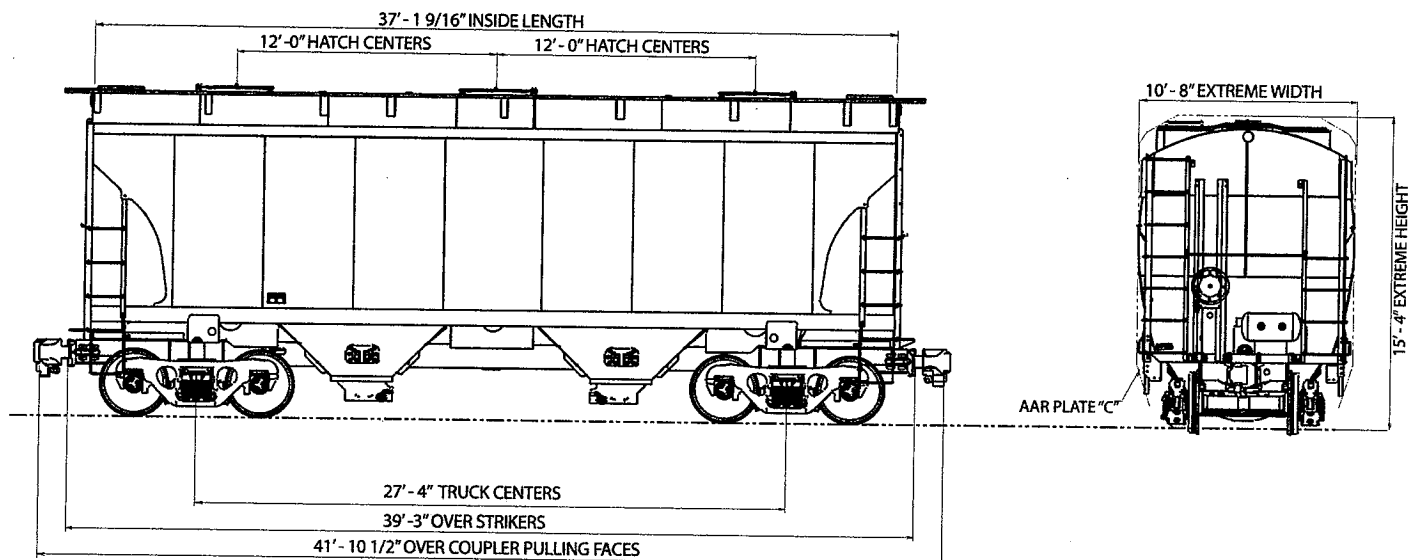
TrinityRail's extensive railcar product portfolio has a complete line of covered hopper cars including a 3,281 cubic foot covered hopper car optimized to transport cement, sand, or other high-density products.

Mile after mile, TrinityRail, with extensive resources, expertise, and experience, continues to deliver innovative rail transportation solutions for our customers.



3281 CUBIC FOOT COVERED HOPPER

Dimensions (Approximate):



Length Over Coupler Pulling Faces	41' 10 1/2"	Extreme Width	10' 8"	Hatch Opening	30" dia. (3)
Length Over Strikers	39' 3"	Estimated Lightweight	53,000 lbs.	Size of Discharge Outlet	13" X 42" (2)
Length Between Truck Centers	27' 4"	Gross Rail Load	286,000 lbs.	Cubic Capacity	3,281 c.f.
Extreme Height	15' 4"	Estimated Load Limit Based On 286,000 lbs. Gross Rail Load	233,000 lbs.		

FEATURES	BENEFITS
Round Side Construction	Promotes better loading and unloading efficiency. Allows for maximum use of available cubic capacity.
Through Center Sill	Provides greater structural integrity, lower weight, and enhanced operation of outlet gates.
High Side Sill	Enables easier access to outlet gates and vibrator brackets.
Round Roof	Improves structural integrity. Helps shed water and snow.
Steel Underframe	Provides strength and durability.
Hopper Slopes	Steep outside hopper slopes and valley angles enhance product flow and promote full cleanout of car.
Flexible Hatch Configuration	Multiple hatch options are available to meet specific shipper needs.
Interior Lining	Round side and smooth interior allow for ease of lining and enhanced coating performance, if required.
Vibrator Brackets	Pad and bracket construction protect the car from fatigue damage, minimizing maintenance.
Component Availability	Replacement components are available to minimize out-of-service time.
Field Service Support	TrinityRail Field Service personnel are available for customer training and support.
TrinityRail	TrinityRail offers the most complete product line in the industry with wide-ranging manufacturing and engineering resources. Also available are a full line of leasing and management options for greater customer flexibility.

2525 Stemmons Freeway, Dallas, TX 75207
 Phone: 214-631-4420
 Fax: 214-589-8623
www.trinityrail.com