

CENTER FLOW® COVERED HOPPER CAR SPECIFICATION

ESTIMATE NO.: 13-ARI-007-A CUSTOMER: ARI Standard

GENERAL INFORMATION

CAR TYPE: CF3258 Center Flow® Covered Hopper Car

Coupler ------SBE60EE, bottom shelf

Remarks: *Applied w/ 64 bolts each & butyl caulk inside bolt circle. Specialties controlled by ARI.

Coupler Carrier Wear Plates ------- Non-metallic Striker ------ Fabricated AEI Tags ------ (2) per car Defect Card Holder ------ None

DATE: 1/2/13

COMMODITY: Unknown

SALES ARRANGMENT DWG.: S5-W-7107

GENERAL INFORMATION		
Volume		
Number of Compartments		
Length over Pulling Face		
Truck Centers		
Outlet Centers		
Height (Rail to Top Of Hatch)	15' 1"	
Extreme Width Outside		
Height – Rail to Extreme Width	8' 7"	
Width - Upper Eaves (Running Boards)	8' O"	
Height – Rail to Upper Eaves	14' 9"	
Clearance Diagram	C	
Slope - Transverse Slope Sheet		
Slope - Side Slope Sheet	48°	
Slope – End Floor Sheet	40°	
Center of Gravity – Empty (estimate)	55"	
Center of Gravity – Loaded (estimate)	98"	
Carbody Weight (estimate)	33,500 lbs	
Total Lightweight (estimate)	53,500 lbs	
NEGOTIABILITY: Horizontal Curve Uncoupled		
Horizontal Curve Coupled to Like Car		
Horizontal Curve Coupled to AAR Base Car		
Vertical Curve Uncoupled	268'	
Vertical Curve Coupled to AAR Base Car	385'	
EQUIPMENT		
Hatches	(3) 30" diameter fiberglass covers with Ireco latches	
	(2) Miner MKE 10183K, 13" x 42" gravity*	
Vibrator Attachments	(4) per car, (2) per compartment- stud welded	
	(2) 2" end vents with rain covers, (1) on each end	
Running Boards/End Platforms	Pre-galvanized, ARI G-90	
Lift Holes	4" x 6" oval holes in side sill	
Center Plate	Grade "B" 16" Low Profile Forged	
Rear Lugs		
Draft Gear		
Yoke	SY40AE Gr. "E" or integral	



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BODY MAT	ERIAL
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Side Sheet174" min 50 ksi yield
Side Slope Sheet
Roof Sheet
Side Plate121" min 50 ksi yield
End Floor Sheet
Interior Bulkheads
Interior Floor Sheet178" min 50 ksi yield
Outlet Mounting Frame 4" x 4" x 3/8" ASTM A-36

UNDERFRAME MATERIAL

Stub Center Sill	Fabricated
Center Sill Web	1/2" ASTM A-572 Gr. 65 Ty. 2
Shear Plate	17/32" ASTM A-572 Gr. 50 Ty. 2
Diagonal Stiffeners	
End Sill	
Bolster Bottom Cover	1/2" ASTM A-572 Gr. 65 Ty. 2
Upper Bolster Web	240" min. ASTM A-572 Gr. 50 Ty. 2
= =	1/2" ASTM A-572 Gr 50 Tv 2

BRAKES

Brake	Body mounted 10" x 12" cylinder
Control Valve	ABDX or DB-60, aluminum
Empty Load Valve	End slope sheet mounted with tap
Slack Adjuster	Automatic-double jaw
Hand Brake	Vertical wheel Ty. 1993
Remarks: Specialties controlled by ARI.	

TRUCKS

INCOMO		
Type	- 286,000 lbs capacity, AAR M-976 compliant	
Weight	- 20,000 lbs (total)	
Spring Grouping	- D5	
Wheel		
Axle	- AAR M-101 Gr. "F", 6 1/2 x 9	
Roller Bearing	- Heavy duty 6 1/2 x 9, NFL type	
Roller Bearing Adapter	- Narrow pedestal with elastomeric pads	
Roller Bearing Retainer Key	- None	
Side Frame	- AAR M-201 Gr. "B+" *	
Bolster		
Bolster Wear Liner	- Vertical: metallic - welded, Horizontal: non-metallic - loose	
Center Plate Lubricant	- None	
	- Constant contact, long travel, metal capped	
Brake Shoe	- AAR H4, 2" composition	
Brake Beam	- AAR #18 unit type	
Brake Beam Guide	- Non-metallic	
Remarks: *Column guide wear plates are bolted only. Specialties controlled by ARI.		



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PAINT & LINING

Interior Preparation ----- Abrasive blast or mechanically clean welds for inspection

Exterior Preparation ----- Abrasive blast to commercial grade SP-6

Interior Lining ----- None

Exterior Paint ----- DTM epoxy, gray, 4-6 mils DFT

Anti-Skid ----- ARI anti-slip

Stenciling ------ AAR markings with horizontal yellow delineators

Remarks:

MISCELLANEOUS