



# ORE CAR 1800 cu-ft BOTTOM DUMP

29' Open Top Gondola with sides and 1/2" to the foot vertical taper

## GENERAL INFORMATION

VOLUME: .....	1800 cu. ft
LENGTH OVER PULLING FACE: .....	34'- 1"
TRUCK CENTERS: .....	20'- 5 1/2"
EXTREME HEIGHT .....	10'- 6"
EXTREME WIDTH OUTSIDE: .....	10'- 6"
HEIGHT-RAIL TO EXTREME WIDTH: .....	10'- 6"
WIDTH-UPPER EAVES .....	10'-6"
HEIGHT-RAIL TO UPPER EAVES: .....	10'- 6"
CLEARANCE DIAGRAM: .....	C
CARBODY WEIGHT EST. ....	35,000#
TOTAL WEIGHT CAR EST.: .....	55,000#
HORIZ. CURVE UNCOUPLED .....	150 ft.
HORIZ. CURVE COUPLED LIKE CAR .....	150 ft.
HORIZ. CURVE COUPLED TO AAR BASE CAR .....	150 ft.
VERT. CURVE UNCOUPLED .....	500 ft.
VERT. CURVE COUPLED TO AAR BASE CAR .....	500 ft.
VERT. CURVE COUPLED TO LIKE .....	500 ft.
INSIDE LEGNTH. ....	29' @ top, 28' - 2" @ bottom
INSIDE WIDTH .....	9' - 6 3/4" @ top, 8' - 10 3/4"
INSIDE HEIGHT .....	7'
<b>REMARKS:</b> Car is designed for 286,000# GRL per AAR S-286. Trucks are M-976 preliminarily approved.	

## EQUIPMENT

END PLATFORMS .....	ARI, Pre-galvanized G90
LIFT HOLES: .....	6" at bolster
DRAFT GEAR: .....	AAR M901E or M901G
CENTER PLATE: .....	16" dia
STRIKER: .....	Fabricated
REAR LUGS: .....	Fabricated
COUPLER: .....	SBE60EE, bottom shelf
YOKE: .....	SY40AE Gr. "E" or integral
COUPLER CARRIER WEAR PLATES .....	Non-metallic
AEI TAGS: .....	2 per car
ROPING STAPLES: .....	(4) 3" x 4" cutout
JACKING PAD: .....	area under side sill at bolster

## CAR DESCRIPTION

### BODY MATERIAL

SIDE SHEET .....	1/4" 50,000 yield
SIDE STAKES .....	(7) 5/16" & 1/4" X 6" to 10" X 4" 50,000 yield tapered
TOP CHORD, SIDE .....	3/8" X 5" X 6" ASTM A-500 Gr. B
TOP CHORD, END .....	3/8" X 5" X 6" ASTM A-500 Gr. B
SIDE SILLS .....	MC 13 X 31.8#/ft. 50,000 yield
FLOOR SHEET .....	3/8" 50,000 yield
END SHEET .....	5/16" 50,000 yield
END STIFFENERS .....	(3) 5/16" x 5" 50,000 yield
CORNER POSTS .....	(4) fabricated 3/8" plate & C5 x 9 #/ft. 50,000 yield

**REMARKS:** Sides and ends are pinned at the top with a 2-inch pins with a welded cover plate.



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## UNDERFRAME MATERIAL

**CENTER SILL** ----- CZ 13 51.2#/FT. 50,000 yield  
**END SILL** ----- 6" x 4" x 1/2"  
**BOLSTER BOTTOM COVER** ----- 5/8" ASTM A-572 Gr. 50 Ty. 2  
**BOLSTER TOP COVER** ----- 5/8" ASTM A-572 Gr. 50 Ty. 2  
**BOLSTER WEB** ----- 1/2" ASTM A-572 Gr.50  
**CROSS BEARER** ----- 5/16" web, 3/8" flange, 50,000 yield welded to center sill and side sill, continuous top cover  
**CROSS TIES** ----- W6 x 12 #/ft. 50,000 yield  
**STRINGERS** ----- None  
**TENSION TIES** ----- Fabricated, side stakes @ floor @ cross bracing

## BRAKE

**BRAKE** ----- Body mounted, AB 10" x 12" w/ ELX-BR 60 empty load equip.  
**AB VALVE** ----- ABDX  
**HAND BRAKE** ----- Vert. wheel Ty. 1993 w/#66 bellcrank, w/ long release handle  
**SLACK ADJUSTER:** ----- Automatic-double jaw

## REMARKS:

## TRUCKS

**TYPE:**----- 286,000# capacity  
**WEIGHT:**----- 20,000#  
**SPRING GROUPING:**----- D5  
**AXLE:**----- AAR M-101 Gr. "F", 6 1/2 x 9  
**ROLLER BEARING:**----- Hvy. Duty 6 1/2 x 9, NFL type  
**SIDE FRAME:**----- AAR M-201 Gr. "B +"  
**BOLSTER:**----- AAR M-201 Gr. "B+ " 16" bowl,  
**BOLSTER WEAR LINERS:**----- Vertical metallic welded, horizontal non-metallic loose  
**ROLLER BEARING RET. KEY:**----- None  
**SIDE BEARING:**----- Long travel metal capped constant contact  
**WHEEL TYPE:**----- 36" dia. Class "C", 1 wear  
**BRAKE SHOE:**----- AAR H4 2" composition  
**BRAKE BEAMS:**----- AAR #18 unit type  
**CENTER PLATE LUBRICANT:**----- None  
**ROLLER BRG. ADAPTER**----- 6 1/2" x 9" narrow pedestal w/ elastomeric pads  
**BRAKE BEAM WEAR PLATES** ----- Non-metallic  
**REMARKS:** Column wear plates bolted only.

## PAINTING & LININGS

**PREP.:** ----- Abrasive blast to Commercial Grade SP-6  
**PAINT :** ----- 4-6 mils DTM epoxy paint  
**STENCILING:**----- AAR markings with yellow horizontal delineators  
**ANTI-SKID:** ----- None  
**REMARKS:**