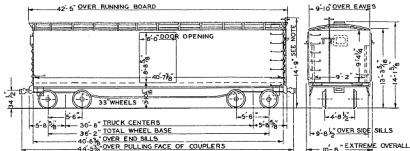


CLASS
B-50-11

BOX CAR
100000 LB CAPACITY

CARS U.P. 122000-122473
U.P. 124000-125899
O.S.L. 135000-138525



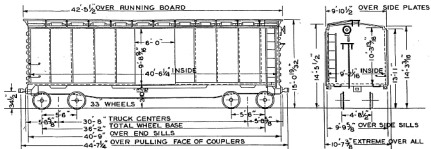
LENGTH - INSIDE OF LINING	40-77/8"	CAR	NO. CARS	YEAR	REFERENCE DRAWINGS
WIDTH - "	9'-2"	BUILDER	BUILT	BUILT	GENERAL DESIGN C 2116
HEIGHT - INSIDE TOP OF FLOOR TO BTM OF CAR LINE AT S. PL. 9'-4 1/4"		AM. C.&F. CO.	468	1914	BRAKE ARRCT. C 1713
CUBIC CAPACITY	3500 CU. FT.	" * * * *	1500	1917	TRUCK ARRCT. C 2099
WT. OF EACH TRUCK - VULCAN	7507 LBS.	W.C. C&F CO.	400	1918	
LT. WT. OF CAR COMPLETE	49000 LBS.	WEST ST. CAR CO.	1999	1914	
UNDERFRAME - BETENDORF					
SUPERSTRUCTURE - WOOD		AM.C.&F.CO.	1027	1914	

AXLE - JOURNALS	51/2X 10"
AIR BRAKE	K.C. 1012
BRAKE BEAMS	CRECO B2
" SUPP & CHAIRS	CIFFCO
" STEP	WOOD
COUPLERS	TYPE-D
" YOKE	WROT IRON
" RELEASE HOODING	CAMER
DRAFT GEAR	MINER TANDEM
ENDS	CORRUGATED STEEL
" DOORS	STEEL
HAND BRAKE	BRAKE MAST
ROOF	IMP. PIV. FLEXIBLE
SIDE DOOR	WOOD
" FIXTURES	CAMEL
TRUCK BOLSTERS	CAST STEEL
" SICK FRAME	VULCAN
" ROLLER DEVICE	BARBER
" SIDE BEARING	MINER GRAVITY
WHEELS - CAST IRON	33"

ON CARS NOT EQUIPPED WITH
POWER HAND BRAKE
1137 CARS OF ABOVE SERIES
RENUMBERED TO 305000-306000 & 307000
INSIDE L. 40' 6 1/4"

UNION PACIFIC RAILROAD CO.
RESEARCH AND
MECHANICAL STANDARDS

				DIAGRAM
				F-3-11
				DRAWN
				7-12-61

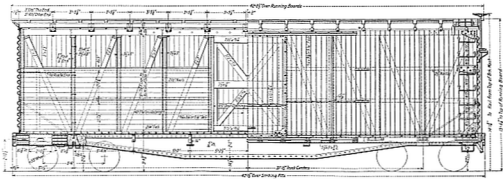
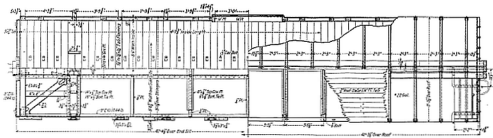


LENGTH INSIDE OF LINING	40'-8 1/4"	CAR BUILDER	NO. CAR	YEAR	REFERENCE DRAWINGS
WIDTH	9'-2 1/8"	U. P.	500	1943	GENERAL DESIGN 246 C 8470
HEIGHT AT EAVES	10'-3 1/8"				BRAKE ARRGT. 154 C 8469
CU. CAPACITY	3835 CU. FT.				TRUCK 423 C 8375
WT. OF EACH TRUCK	7850 LBS.	CARS REBUILT FROM			UNDERFRAME 444 C 8460
LT. WT. OF CAR-COMplete	52000 LBS.	A-50-5	170500-171499		ROOF ARRGT. 324 C 8064
UNDERFRAME - BETTENDORF		B-50-29	75599		ST. END ARRGT. 374 C 8473
SUPERSTRUCTURE - STEEL	YOUNGSTOWN	B-50-11	122000-122473		ST. SHEATHING & FRAMING 124 C 8467
		B-50-11	124000-125899		

AXLE - JOURNALS	5/2 X 10"	HAND BRAKE	MINER. EQUIPCO
AIRBRAKE	A. B. WESTGHOSE & NEW YORK	"	"
BRAKE BEAMS	CRECO #3	"	AJAX, UNIVERSAL
"	SURRA ALL CHAIRS	LADDERS - SIDE & END	WINE
"	HANGER & WEAR PLATE	LATITUDINAL RUN BOARD	STD. RY. EQT. CO
"	ROD JAWS	ROOF	SOLID STEEL
"	PIPE ANCHOR	STEEL ENDS	DREADNAUGHT
"	STEP - METAL	SPRING PLANK	CAST STEEL
BOTTOM ROD GUARD	CRECO	TRUCK BOLSTER	"
COUPLERS	BOTTOM OPER. TYPE - E	"	"
"	CENTERING DEV. STD. RY. EQT. CO	"	"
"	RELIEF RIGGING	"	"
"	VOICES	"	"
CYL. & FLOATING LEVERS	SCHAEFER	"	"
DEFECT CARD HOLDERS	REAL	"	"
DOORS & FIXTURES	CAMEL	"	"
DRAFT GEAR	EDGEWATER, CARDWELL	"	"
"	KEY RETAINER	"	"
"	SURELOX	"	"

UNION PACIFIC RAILROAD CO
RESEARCH AND
MECHANICAL STANDARDS

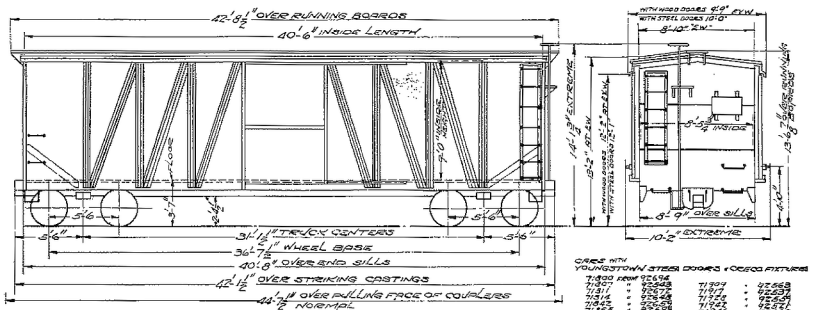
DATE	DIAGRAM
	F-3-37
	DRAWN
	8-1-43



Standard 40-Ton Double Sheathed Box Car

1918~1920 USRA 40ft BoxCar Production+Deliveries


	Delivered	Numbers	Total
AT&SF	2700	37001-39700	
ACL	950	46000-46949	
B&M	500	70000-70499	
C&EI	0		
C&NW	1250	141200-143698	
C&WC	300	8000-8299	
CB&Q	500	120500-120999	
CI&L	0		
CRI&P	2500	15500-156999	
CS&PM&O	500	36100-37098	
CCC&StL	1000	56000-56999	
C&S	0		
DL&W	800	44000-44799	
DSS&A	0		
DT&i	300	11000-11299	
EJ&E	500	7300-7799	
EIP&SW	0		
GN	1500	23494-24993	
GTW	600	108100-108299 / 108450-108599 / 108850-109099	
IC	0		
KCS	100	15500-15599	
M&StL	300	22000-22598	
MP	250	45001-45250	
NYC&StL	0		
NP	0		
NWP	100	1900-1999	
NYC	1000	161000-161999	
PM	2000	80000-81999	
SLSF	3500	127000-130499	
SP	0		
SP&S	300	10000-10299	
T&P	0		
T&OC	250	14000-14249	
TS&L&W	0		
UP	0		
WAB	2800	78200-80999	



CARS WITH YOUNGSTOWN STEEL DOORS & CREC FIXTURES

71000	92694		
71007	92603	71904	92563
71311	92677	71917	92537
71314	92648	71928	92534
71843	92658	71946	92551
71853	92696	71948	92666
71860	92554	71949	92669
71875	92423	71953	92536
71875	92679	71955	92633
71881	92679	71959	92536
71891	92510	71959	92556
71896	92653	71970	92628
71904	92542	71994	92567

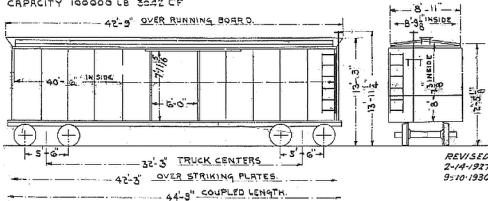
1936 & 1937
 NOS. CHANGED FROM 92500-92699 TO 71800-71999
 ADD RS BRKES, GRAB IRONS, BOTTOM ROD GUARDS, INSIDE STEEL PLATES

GENERAL DATA		TRUCK DATA	71806-71998																																																			
BUILT BY - ASSELBACHER MACHINING	CENTER SILL - 24-35" SHIP CHANNEL	SIDE BEARING CENTERS - 4'-2"	CLASS	CARS																																																		
YEAR BUILT - FUG. 1919 SEE NOTE	CENTER SILL AREA - 25.73 SQ. IN.	SLEATHING -	50 TON SINGLE DOOR BOX																																																			
CAPACITY LEVEL FULL - 31, 31	CENTER SILL COVER PLATE - 1/4" X 20 1/2"	SUPPERSTRUCTURE - STEEL																																																				
CAPACITY WITH 13 IN. HIGH CU. FT. - 3091	COUPLER - TYPE 101 6 X 8" SHANK	UNDERFRAME - STEEL																																																				
CAPACITY WITH 13 IN. HIGH CU. FT. - 3091	COUPLER RELEASE RIGID - CARRIER	TRUCK DATA																																																				
AVERAGE LOAD LINE 14' - 12000	DOOR - 2 PANEL STEEL & WOOD	SLITERS - CAST STEEL	CLEVELAND, OHIO REVISIONS <table border="1"> <thead> <tr> <th>NO.</th> <th>BY</th> <th>DATE</th> <th>GROUP NO.</th> <th>SHEET NO.</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>6</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>7</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>8</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>9</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		NO.	BY	DATE	GROUP NO.	SHEET NO.	1					2					3					4					5					6					7					8					9				
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AVERAGE LIGHT WEIGHT - 4900	DOOR FIXTURES - CAMEL & CREC CO	BRAKE BEAM - 3" X 3"																																																				
BUILDERS REFERENCE	DOOR CLEAR OPENING - 6'10" X 8'7 1/2" H.	BRAKE BEAM SUPPORT - CREC 3 POINT																																																				
P. & S. 2-2	DRAFT GEAR - CARDWELL PATENT	CENTER PLATE - C.S. INTEGRAL																																																				
	DRAFT GEAR ATTACHMENT - KEYTITE C.S. 3, 3000	GENERAL DRAWING BY TRUCK BLD.																																																				
	ENDS - MACHINES - SEC. CORRUG. STEEL	JOURNAL - 5 1/2" X 10"																																																				
	END LOAD RATIO - 0.539	SIDE BEARING - MACHINED STEEL PLATES																																																				
	FLOORING - 2 1/2"	SIDE FRAMING - ANDREWS Q.S.																																																				
	GENERAL DRAWING OF CAR NO.	SPRINGS - CRS 10" CWL 4 OUTERS UNDER PERNEST																																																				
	HAND BRAKE - WHEEL & SHAFT	WHEELS - 750" CAST IRON																																																				
	LINING SIDE - 1 1/2"	WEIGHT OF ONE TRUCK																																																				
	LINING SIDE - 1 1/2" X 3/32" STEEL																																																					
	ROOF - CLIMAX																																																					

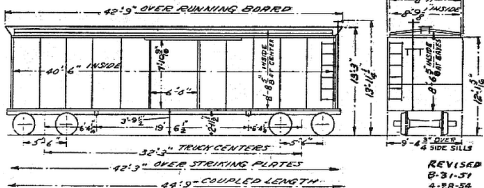
BOX CAR CLASS X29

WEIGHT 46500 LB

CAPACITY 100000 LB 3042 CF



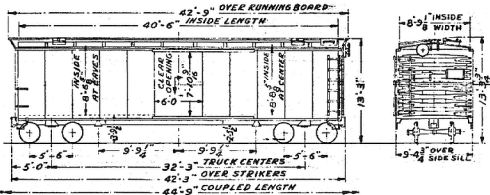
BOX CAR CLASS X29A
 WEIGHT 46500 LB
 CAPACITY 100000 LB 3034U



BOX CAR CLASS X29C

WEIGHT 45,900 LB

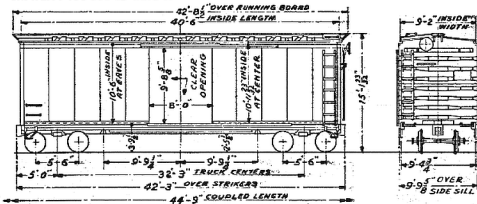
CAPACITY 100,000 LB 3056 CF



BOX CAR CLASS X29D

WEIGHT 50 100 LB

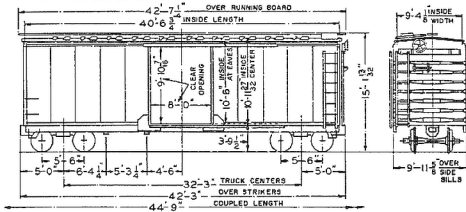
CAPACITY 100 000 LB 3898 CF



BOX CAR CLASS X29F

WEIGHT 54 300 LB

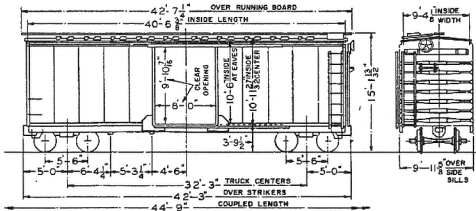
CAPACITY 100 000 LB 3970 CF



BOX CAR CLASS X 29 G

WEIGHT 53 300 LB

CAPACITY 100 000 LB 3970 CF



Canadian Pacific Minibox



In 1929 and 1930, 7500 fifty ton steel box cars of a new design were built for the Canadian Pacific Railway. This was the first large group of steel box cars to be built and operated in Canada

The distinctive features of the design, the low interior height of 8'7", the Murphy radial all steel roof, and Dreadnaught ends with recessed corrugations, made the cars stand out in Canadian freight trains for more than forty years. Their small size earned them the title "minibox" from modelers.

In 1923, the American Railroad Association (ARA) developed standard dimensions for a steel box car. The recommended dimensions were 40'6" inside length and 8'7" inside height. The ARA design was used by a number of northeastern US railroads, including the PRR, NYC, B&O, CNJ, LV, DL&W and Reading for double sheathed steel box cars. The PRR built about 30,000 cars of their class X-29, while others built a total of about 20,000.

1925 ARA design for a double sheathed box car included vendor options such as Dreadnaught ends (Recessed) and a Murphy steel radial roof. The ATSF built their BX-9 class following this design. The CPR, an important member of the ARA, innovatively advanced the design of steel box cars within the dimensions of the 1925 car for their first major steel box car order. The ARA followed their lead on an enlarged car for the 1932 design.

A prototype for the "minibox" was built by the CPR's Angus Shops in Montreal in June 1927. This car # 180000 was somewhat different than the subsequent production having steel sides that overhung the side sills and a flat steel door. It remained in service until at least 1937, but was retired by 1940.

The main dimensions of the production cars: inside length 40'6"; interior height 8'7"; height of running 13' 2"; interior width 8'7"; door opening 5'0"; capacity 120,000 lbs. and 300 cubic feet.

Order	Series No.	Amt.	Builder
2513	240000-242499	1,500	Canadian Car and Foundry
2513	241500-242249	750	National Steel Car Corp.
2513	242250-242499	250	National Steel Car Corp.
2529	242500-242999	500	Eastern Car Company
2529	243000-243999	1,000	Canadian Car and Foundry
2529	244000-245059	1,060	Canadian Car and Foundry
2529	245060-245199	140	Eastern Car Company
2529	245200-245699	500	National Steel Car Corp.
2529	245700-247249	1,550	National Steel Car Corp.
2529	247250-247499	250	National Steel Car Corp.
	Total	7,500	

243000 to 243999, had a lumber door in their "A" end, 12" tall by 18" wide

BOX CAR YM

41000-41949	PULL-STD. CAR AM. CAR & FORY	1940
-------------	---------------------------------	------

1964-1965 RENUMBER FROM 15000-15999

CPTY 106600 LB 37/8 CF

BODY 50220LB TRUCK 15900 TOT 46120 LB

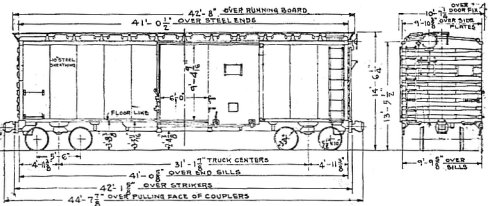
INSIDE W 9' 2 1/8" H 9' 11 3/8" L 40' 9"

STEEL UNDERFRAME

STEEL SHEATHED

AB BRAKES

C.S. FRAME TRUCKS

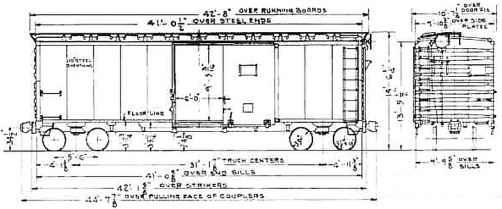


BOX CAR

SERIES 19000-19499
BUILDER 1940
 19000-19499 PULL STD CRAMPB, CA.
 19500-19999 RM CAR & BOX CO.

BODY 29800 TRUCKS 15900 TOTAL 45700 LB
CAPY 100000 LB 3738 CF
INSIDE L117H 40'9" W117H 9'2 1/2" H117H 10'0"

STEEL UNDERFRAME
STEEL SHEATHED
CO FRAME TRUCKS
AB BRAKES



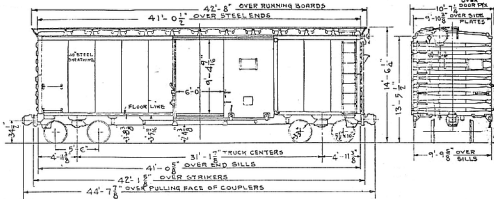
BOX CAR XM

SERIES	BUILDER	DATE
42040-42989	AM. CAR & FDRY.	1941

1964-1965 RENUMBER FROM 16000-16999

CPTY 100000 LB 3718 CF
 Body 29720 TRUCK 15900 TOT 45620 LB
 INSIDE W 9'2 1/2" H 9'11 3/8" L 40'9"

STEEL UNDERFRAME
 STEEL SHEATHED
 C.S. FRAME TRUCKS
 AB BRAKES



BOX CAR

BUILD

20000 - 27344	AMERICAN CARBIDE 1942
27350 - 27499	MR. KY. LAUREL
27500 - 27999	FULL STD. CAR AND

CPTY 100000 LB 3904 CF

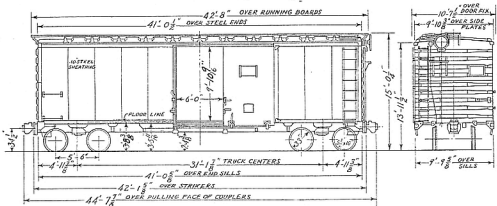
BODY 30370 TRUCKS 15540 TOTAL 45910 LB

INSIDE W 9' 2 1/2" H 10' 5 3/8" L 40' 9"

STEEL UNDERFRAME

STEEL SHEATHED

C.S. FRAME TRUCKS



BOX CAR XM

SERIALS	BUILD YEAR	DATE
45300-45447	N.P. RY LAUREL	1942

1964-1965 RENUMBER FROM 27350-27499

CPTY 100,000 LB 3904 CF

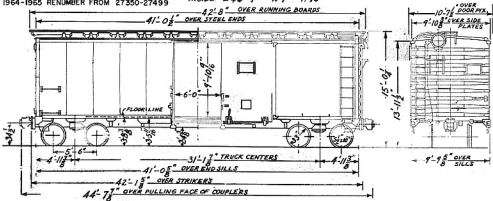
BODY 31670 TRUCKS 15540 TOTAL 47210 LB

INSIDE L 40'9" W 9' H 10'

STEEL UNDERFRAME

STEEL SHEATHED

C.S. FRAME TRUCKS



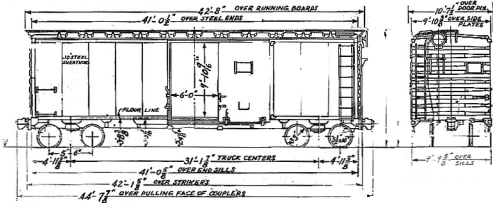
BOX CAR XM

SERIES	BUILDER	DATE
45500-45999	FULL STD. CAR MFG	1942

1964-1965 RENUMBER FROM 27500-27989

CPTY 100,000 LB 3904 CF
BODY 30870 TRUCKS 15540 TOTAL 46410 LB
INSIDE W 9'2 $\frac{1}{2}$ " H 10'5 $\frac{3}{8}$ " L 40'9"

STEEL UNDERFRAME
STEEL SHEATHED
1:8 FRAME TRUCKS



BOX CAR BUILD

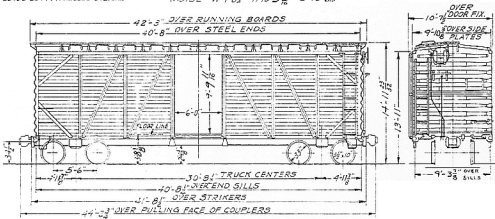
28080-28749 PULL STD. CAR MFG 1944
28750-28999 PRESSED STL. CAR

CPTY 100,000 LB 3849 CF

BODY 30'9" TRUCK 14'10" TOTAL 45'0" LB.

INSIDE W 9'0" H 10'5 1/2" L 40'6 1/2"

STEEL UNDERFRAME
SINGLE SHEATH
C.S FRAME TRUCKS



BOX CAR BUILD

1000-1009 PULL STD CAR 1943

1954 RENUMBER FROM 29000-29499

WITH EVANS DF LOADER INSTALL

CAPACITY 100000 LB 3637 CF

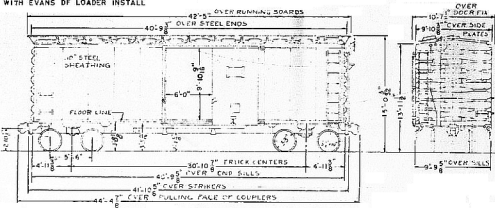
BODY 36800 TRUCKS 15700 TOTAL 52500 LB

INSIDE W 9'0" H 10'5 3/8" L 40'6"

STEEL UNDERFRAME

STEEL SHEATHED

C.S. FRAME TRUCKS



BOX CAR

BUILD

29000 - 29499

PULL STD CAR 1945

CAPACITY 100000 LB 3897CF

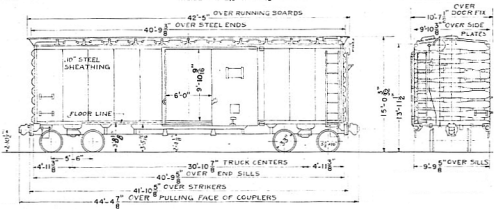
BODY 31220 TRUCKS 15700 TOTAL 46920 LB

INSIDE W 9'2 1/2" H 10'5 7/8" L 40'6"

STEEL UNDERFRAME

STEEL SHEATHED

G.S. FRAME TRUCKS



BOX CARS

49050-49399 (PURL STD CAR 1945)

1965 RENUMBER FROM 29000-29499

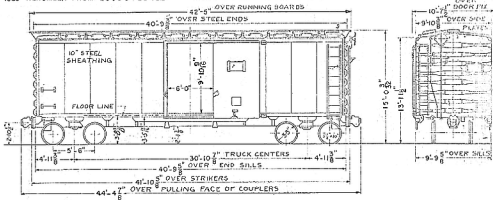
CAPACITY 100000 LB 3897 CF

BODY 31220 TRUCKS 15700 TOTAL 46920 LB

INSIDE W 9'2 1/2" H 10'5 3/4" L 40'6"

STEEL UNDERFRAME

C.S. FRAME TRUCKS



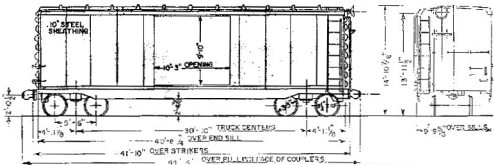
BOX CARS XM BUILD

36000-38299 | P.O. | STD 19-17

LEASED FROM A.A. MOH-RISON
 FORMERLY LC-101 WA BY R.R. CO.
 SERIES 62000-62499

CAPACITY 110000 LB 3090 CB
BODY TRUCKS TOTAL 40000 LB
INSIDE W 3'-2" H 10'-6" L 40'-4"

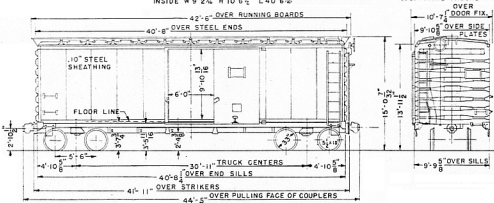
STEEL UNDERFRAME
STEEL SHEATHED
STEEL NAIL AND P. FLOORING



BOX CAR BUILD
 19000 - 19999 | N. P. RY. 1953

CAPACITY 100000 LB 3915 CF
BODY 32532 TRUCKS 15768 TOTAL 48300 LB
INSIDE W 9'2 1/2" H 10'6 1/2" L 40'6 1/2"

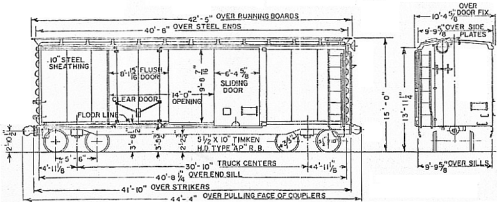
STEEL UNDERFRAME
STEEL SHEATHED
C. S. FRAME TRUCKS



BOX CARS XM BUILD
 3000-3399 PULL STOCAR 259-60

CAPACITY 100000 LB 3082 CF
 BODY 40060 TRUCKS 14160 TOTAL 54220 LB
 INSIDE W 9' 2 1/16" H 10' 5 3/8" L 40' 6 1/16"

STEEL UNDERFRAME
 STEEL SHEATHED
 A3 RIDE CONTROL TRUCKS
 AVAILABLE STEEL FLOOR



BOX CARS XML

1297 N. P. RY. 1969-60

CONV. FROM BG42

CAPACITY 100000 LB 3903CF

BODY 38790 TRUCKS 14160 TOTAL 52950 LB

INSIDE W 9'2 1/16" H 10'5 3/4" L 40'7 7/16"

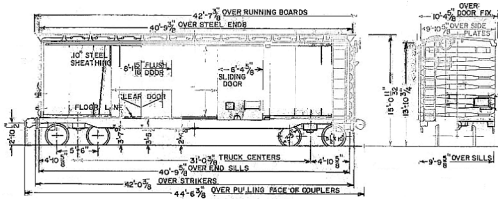
STEEL UNDERFRAME

STEEL SHEATHED

A-3 RIDCONTROL TRUCKS

AVAILABLE STEEL FLOOR

MILLER PLYPAK FOR PLYWOOD



BOX CARS XML

1295 N. P. RY. 150950

CAPACITY 100000 LB 3943 CF

BODY 38790 TRUCKS 14160 TOTAL 52950 LB

INSIDE W 9'2 1/16" H 10'7" L 40'7 7/16"

STEEL UNDERFRAME

STEEL SHEATHED

A-3 RIDECONTROL TRUCKS

AVAILABLE STEEL FLOOR

EVANS FILLERS FOR PLYWOOD

