DATA SHEET

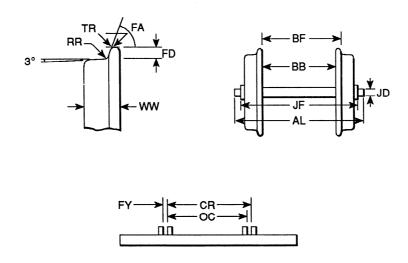
WHEELS

Compiled by: The Technical Committee

Dimensions and Compatability with Standard Tracks of Carriage and Wagon Wheelsets in Current Production

This Data Sheet lists the compatibility with standard tracks of carriage and wagon wheelsets in production at the date of issue. It has been compiled from data provided by suppliers and will be added to as further information is received. The dimensions of wheelsets not listed should be obtained directly from the suppliers.

The dimensional requirements for full compatibility of a wheelset with the track are as follows:-



The minimum back to back (BB) dimension must be greater than the maximum dimension over the check rails (OC).

The maximum back to flange face dimension (BF) must be equal to or less than the minimum check rail to opposite rail face dimension (CR).

The minimum wheel width (WW) must be equal to or greater than twice the minimum flangeway (2FY).

The Track Standards do not specify a minimum dimension from the running surface to the top of the chairs or other type of rail support. A minimum dimension of 1.6mm will ensure clearance to the flanges of any of the wheels listed in this Data Sheet.

Key to the table.

- c = Fully compatible with the track standard. x = Not compatible with the track standard. Overall compatibility
- *** = These wheelsets are fully compatible with this track.
- Although slightly outside the requirements for full compatibility, which are based on both the track and wheelset being at the extremes of their respective tolerances and the flange being square, these wheelsets will run satisfactorily on this track
- NC = These wheelsets are not compatible with this track.
- FD = Flange depth RR = Root radius

TR = Tip radius

FA = Face angle

AD = axle diameter

Track Standard

Track Dimensions	Guild		Greenly (1935)		BRMSB			Scale	NMRA	AMRA	
	Fine	Coarse	Ordinary	Special	Fine	Coarse	Unified	Seven			NEM
Over check rails OC Check to opp. face CR	28.5 30.25	27.6 29.8	25.5 28.0	27.0 29.5	28.5 30.0	27.0 29.5	28.0 30.0	30.94 31.99	28.27 29.77	28.13 29.87	28.0 30.0
Twice flangeway 2FY	3.5	4.4	6.5	5.0	3.5	5.0	3.2	1.94	3.0	3.28	4.2
Wheelset Dimensions											
LEAKEY BB 29.00	c	c	c	с	с	c	c	x	С	c	c
32mm gauge BF 30.00 Fine Standard WW 3.75	c c	X X	X X	X X	c c	X X	C C	C C	X C	X C	C X
Compatibility	***	*	NC	NC	***	NC	***	NC	*	*	*
Other data: FD 1.25 RR 0.	7: TR 0.3	3: Coning	1 in 20: l	FA 75°		1			l		L
LEAKEY BB 28.00	x	c	c	с	x	c	x	x	x	x	x
32mm gauge BF 29.50 Coarse Standard WW 5.00	c c	c c	X X	c c	c c	c c	c c	c c	c c	c c	c c
Compatibility	NC	***	NC	***	NC	***	NC	NC	NC .	NC	NC
Other data: FD 1.5: RR 0.7	: TR 0.5	Coning	1. in 20: F	A 75°.							•
PEMBERTON BB 29.00	С	c	c	с	с	c	c	x	c	с	С
32mm gauge BF 30.00 Fine Standard WW 3.70	c c	c x	X X	X X	c c	X X	c c	c c	c c	c c	c x
Compatibility	***	*	NC	NC	***	NC	***	NC	***	***	*
Other data: FD 1.24: RR 0	.5: TR 0.	5: Conin	g 1 in 20:	FA 80°:	AD 4.76	3 (3/16).					
RAVENSCALE BB 29.00	с	с	c	c	С	c	С	x	С	С	c
32mm gauge BF 30.00 Fine Standard WW 3.75	c c	X X	X X	X X	c c	X X	C	C C	x c	x c	c x
Compatibility	***	*	NC	NC	***	NC	***	NC	*	*	*
Other data: FD 1.0: RR 0.5	: TR 0.2	5: Conin	g 1 in 20:	FA 70°:	AD 4.7	6 (3/16in). See No	te 1.		I	
RAVENSCALE BB 28.00	x .	c	c	c	x	c	x	x	x	x	x
32mm gauge BF 29.50	С	С	x	c	c	c	c	c	c	c	c
Coarse Standard WW 5.00	С	С	X	С	c	С	С	c	С	С	С
Compatibility	NC	***	NC	***	NC	***	NC	NC	NC	NC	NO
Other data: FD 1.5: RR 0.5 Note: Ravenscale wh wheel diameter	neelsets	can be su	pplied to	any star	ndard a	nd with v	arious ty	pes of i	nsulation	and axl	e. The
SLATERS BB 29.20	С	с	С	С	с	c	С	х	c	С	С
32mm gauge BF 29.95 Fine Standard WW 3.81	c c	X X	X X	X X	c c	X X	c	c c	x c	x c	c x
Compatibility	***	*	NC	NC	***	NC	***	NC	*	*	*
Other data: FD 1.02: RR 0	.5: TR 1.	09/0.36:	<u> </u>	·	4 79°. S					L	I
SLATERS BB 29.00	,	С	с	С	С	С	С	x	С	с	c
32mm gauge BF 29.75 Coarse Standard WW 5.00	C	c	x	x	c	x	c	c	c	c	c
Coarse Standard WW 5.00	С	С	х	С	С	С	С	С	С	С	С
Compatibility	***	***	NC	*	***	*	***	NC	***	***	***

Note 1 The flange depth is below the specified minimum for all 32mm gauge standards except Guild Fine.