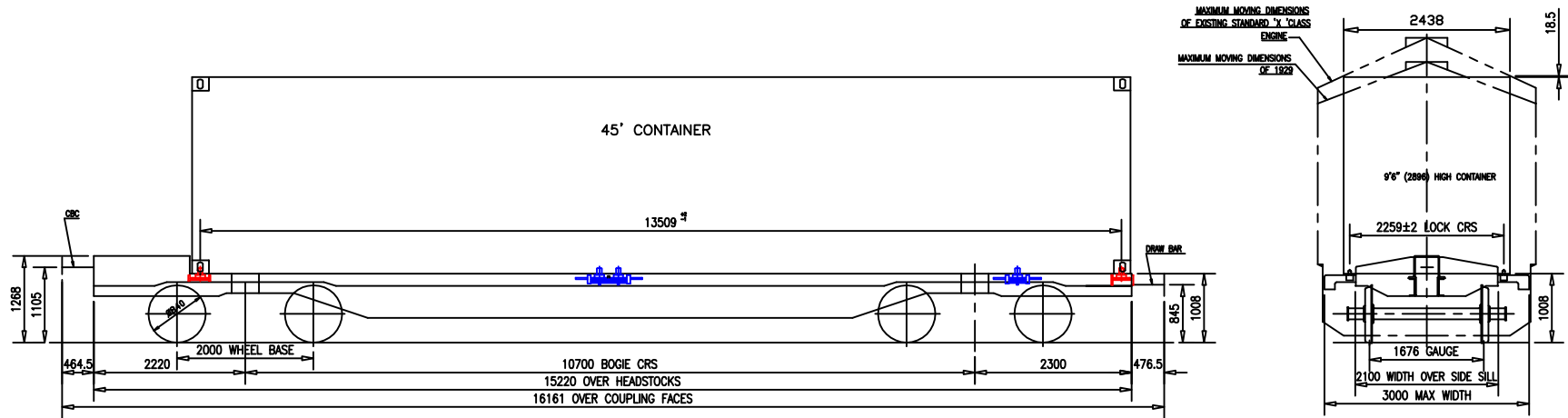


WAGON DIRECTORATE R.D.S.O.	BOGIE LOW PLATFORM LONGER CONTAINER FLAT WAGON	OPERATIONAL CODE 'BLLA'
GAUGE-B.G.	D I A G R A M	TYPE OF WAGON CODE 63



SPECIAL FEATURES

Suitable for carrying 22', 24' & 45' long containers along with 20' & 40' long ISO containers.

Wt. OF ASSEMBLY SUB-COMPONENT

Wt. of U'frame	6.79 t.
Wt. of air brake fittings & piping and brake gear on U'frame....	1.1 t.
Wt. of coupling (one end C.B.C & S.D.B. opposite end.....)	1.26t

SPEED CERTIFICATE NO:-
MW/SPD/BG Dt. 15.05.2008

REFERENCE:-
DRAWING NO:- 45-A-2001-S/02



INTRODUCTION TO BLLA WAGON :

Bogie Low Platform Longer Container flat (BLL) wagons has been designed jointly by RDSO & RITES for transportation of 22' 24' & 45' containers along with 20' & 40' long ISO containers at an operating speed of 100kmph. Lower height of under frame floor from R.L. has been achieved with introduction of hybrid design of bogie frame, bolster and use of smaller diameter wheel in LCCF 20(C) Bogie.

BLLA (A-Car) wagons are placed at extreme end in formation of one unit of 5- cars (with 3 BLLB wagons in middle). Outer end of BLLA wagons are fitted with standard AAR-E/F TYPE Center Buffer Coupler (C.B.C.) and inner ends are fitted with Slackless Draw Bar (S.D.B.). Wagons are fitted with automatic twist locks to secure containers.

STANDARD FEATURES OF 'BLLA' WAGON

S.No.	PARTICULARS	BLLA
1	Length over head stock (mm)	15220
2	Length over couplers (mm)	16161
3	Length inside (mm)	-
4	Width over Headstock/Width over Bolster (mm)	2100/2200
5	Height inside/Height(max.)from R.L.	1008
6	Bogie centers (mm)	10700
7	Journal length × dia. (mm)	144x278
8	Journal centers (mm)	2260
9	Wheel dia. on tread (New/Worn) (mm)	840/780
10	Height of C.B.C. from R.L. (mm)	1105
11	C.G. from R.L. (empty) (m)	0.604
12	C.G. from R.L. (loaded) (m)	1.998
13	Floor area (Sq.M)	-
14	Cubic Capacity (Cu.M)	-
15	Maximum axle load (tonne)	20.32
16	Tare Weight (tonne)	19.8
17	Pay load (tonne)	61
18	Gross load (Pay+Tare) (tonne)	80.8
19	Ratio gross load/Tare	4.08
20	Ratio (Pay load to tare)	3.08
21	Track Loading density (tonnes/meter)	5
22	No. of wagons per train of 45 wagons	16
23	Brake System	Air Brake
24	Coupler	C.B.C./S.D.B
25	Bearing	R.B.
26	Maximum Speed (Loaded) (Empty)	100 kmph 100 kmph



STANDARD FEATURES OF ‘BLLB’ WAGON

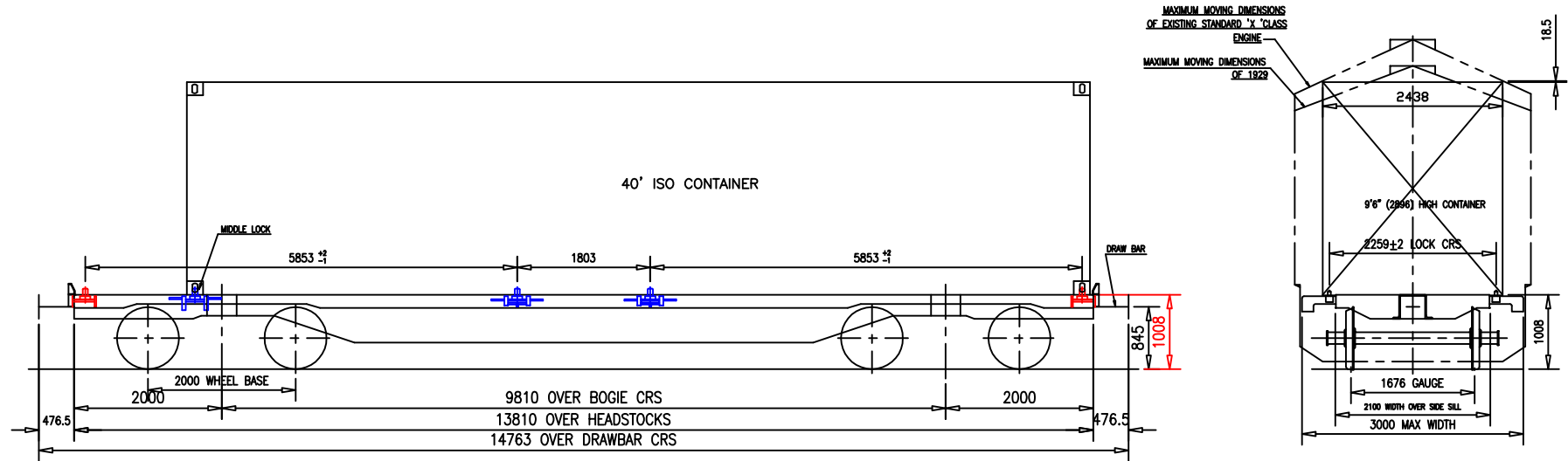
S.No.	PARTICULARS	BLLB
1	Length over head stock (mm)	13810
2	Length over couplers (mm)	14763
3	Length inside (mm)	-
4	Width over Headstock/Width over Bolster (mm)	2100/2200
5	Height inside/Height(max.)from R.L.	1008
6	Bogie centers (mm)	9810
7	Journal length × dia. (mm)	144x278
8	Journal centers (mm)	2260
9	Wheel dia. on tread (New/Worn) (mm)	840/780
10	Height of C.B.C./S.D.B. from R.L. (mm)	845
11	C.G. from R.L. (empty) (m)	0.603
12	C.G. from R.L. (loaded) (m)	2.011
13	Floor area (Sq.M)	-
14	Cubic Capacity (Cu.M)	-
15	Maximum axle load (tonne)	20.32
16	Tare Weight (tonne)	19
17	Pay load (tonne)	61
18	Gross load (Pay+Tare) (tonne)	80
19	Ratio gross load/Tare	4.21
20	Ratio (Pay load to tare)	3.21
21	Track Loading density (tonnes/meter)	5.42
22	No. of wagons per train of 45 wagons	24
23	Brake System	Air Brake
24	Coupler	S.D.B
25	Bearing	R.B.
26	Maximum Speed (Loaded) (Empty)	100 kmph 100 kmph

INTRODUCTION TO BLLB WAGON :

Bogie Low Platform Longer Container flat (BLL) wagons has been designed jointly by RDSO & RITES for transportation of 22’ 24’ & 45’ containers along with 20’ & 40’ long ISO containers at an operating speed of 100kmph. Lower height of under frame floor from R.L. has been achieved with introduction of hybrid design of bogie frame, bolster and use of smaller diameter wheel in LCCF 20(C) Bogie.

BLLB (B-Car) wagons are placed in middle, in one unit of 5- cars (with outer A-Cars). Both ends of BLLB wagons are fitted with with Slackless Draw Bar (S.D.B.). Wagons are fitted with automatic twist locks to secure containers.

WAGON DIRECTORATE R.D.S.O.	BOGIE LOW PLATFORM LONGER CONTAINER FLAT WAGON	OPERATIONAL CODE 'BLLB'
GAUGE-B.G.	D I A G R A M	TYPE OF WAGON CODE 64



SPECIAL FEATURES

Suitable for carrying 22', 24' & 45' long containers along with 20' & 40' long ISO containers.

Wt. OF ASSEMBLY SUB-COMPONENT

Wt. of U'frame & floor plates..... 6.05 t.
 Wt. of air brake fittings & piping and brake gear on U'frame..... 1.1 t.
 C.B.C. complete including uncoupling gear 1.2 t.

SPEED CERTIFICATE NO:-
 MC/SPD/BG Dt. 05.05.2008

REFERENCE:-
DRAWING NO:- 45-B-2001-S/02