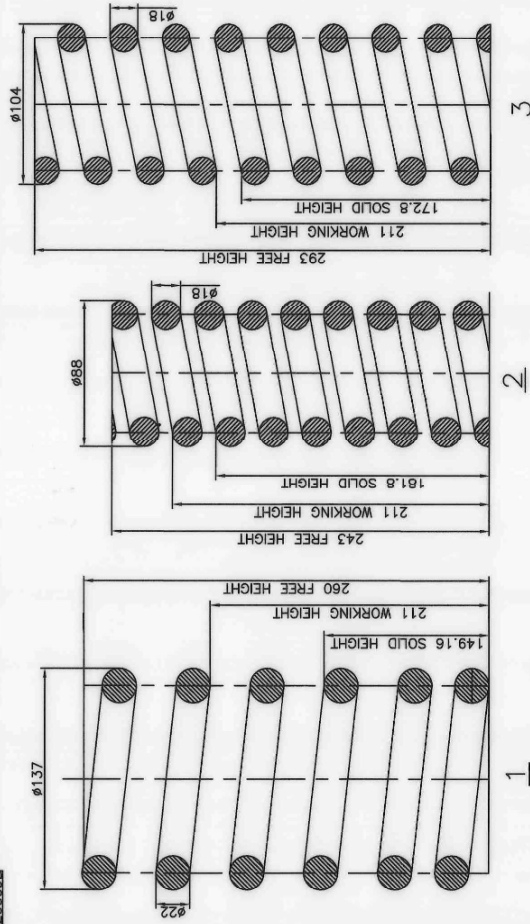


WX20009E



NOTE:-

- a) THE SPRING SHALL BE COATED WITH POWDER COATING AS BELOW:
i) PRIOR TO POWDER COATING, THE SPRING SHALL BE SUBJECTED TO HOT PHOSPHATE TREATMENT OF ZINC PHOSPHATE AS PER IS:3618 (LATEST) TO GET GRADE-'C' COATING.
ii) THE EPOXY POWDER SHALL CONFIRM TO GRADE-'C' TO IS:13871 (LATEST). THE COLOR OF THE COATING AFTER CURING SHALL BE BASALT GREY CONFORMING TO RAL-7012.
- b) THE SPRINGS SHALL BE MANUFACTURED & INSPECTED AS PER SPECIFICATION NO. WD-01-HLS-94.

COLOR CODE FOR NEW SPRING GROUPS AS PER FREE HEIGHT

TYPE OF SPRING	FREE HEIGHT	FREE HEIGHT OF DIFFERENT COLOUR			
		GREEN	YELLOW	RED	
OUTER SPRING	260 ⁺³	263	261	259	257
INNER SPRING	243 ⁺³	246	244	242	240
SNUBBER SPRING	293 ⁺³	296	294	292	290

NOTE:- SPRING GROUPS HAVING SAME COLOUR SHALL BE USED IN A BOGIE.

SPRING DATA

DESCRIPTION	OUTER SPRING	INNER SPRING	SNUBBER SPRING
FREE HEIGHT mm.	260	243	293
SOLID HEIGHT mm.	149.16	181.8	172.8
WIRE DIA. mm.	22	18	18
OUTER DIA OF COIL mm.	137	88	104
LOAD AT SOLID HEIGHT kg	3063.5	2121	2379
WINDING	LEFT HAND	RIGHT HAND	RIGHT HAND
No.OF EFFECTIVE COILS	5.68	9	8.5
TOTAL No OF COILS	7.18	10.5	10.0
SCRAFF TEST LOAD IN kg	2867	2126	2379
HEIGHT AT TEST LOAD mm.	163.5	181.8	172.8
STIFFNESS kg/mm.	27.639	34.66	19.794
WORKING HEIGHT mm	211	211	211
LOAD AT WORKING HEIGHT kg	1354	1109	1623

ESTIMATED TEST TABLE

DESCRIPTION	LOAD IN TONNES							
	0.25	0.5	1.0	1.5	2.0	2.5	3.0	AT TEST LOAD
OUTER SPRING HT.	—	242	224	206	—	170	—	163.5
INNER SPRING HT.	—	—	214	—	185	—	—	181.8
SNUBBER SPRING HT.	—	268	243	217	192	—	—	172.8

12 & 3	WD-25034	DRAWING REVISED	05/25
3	WD-20026	DRAWING REVISED.	07/20
12 & 3	WD-10022	DRAWING REVISED.	03/10
1 & 2	WD-08042	DRAWING REVISED.	05/06
2 & 3	WD-05035	R.H WINDING SHOWN FOR ITEM 2&3 INSTEAD OF L.H	04/05
1, 2 & 3	WD-04081	COLOR CODING OF SPRING GROUP REVISED & DRAWING RESPONSE.	10/04

ALT.	ITEM	AUTHY.	DESCRIPTION	DATE	ASSEMBLY DRAWING
------	------	--------	-------------	------	------------------

3	SNUBBER SPRING	AS PER BOGIE GA DRAWING NO. WD-04038-S/2	IS:3195 (2.50-400)	115-400 BHN
2	INNER SPRING	WD-04078-S/1	IS:3195 Gr.60S17	300-400 BHN
1	OUTER SPRING		WT.OF ONE(Kg) SPEC:	REMARKS

ITEM	DESCRIPTION	NO.OFF/BOGIE	MTL& SPEC:	REMARKS
SUPERSEDED BY				
CASNUB 22HS BOGIE				
SPRING DETAILS				
WD-92058-S/5				