

THE DEPARTMENT OF TRANSPORT SPECIFICATION FOR HIGHWAY WORKS

TABLE 6/4 : METHOD COMPACTION FOR EARTHWORKS MATERIALS: PLANT AND METHODS

TYPE OF COMPACTION PLANT	CATEGORY	BOMAG MODEL	METHOD 1		METHOD 2		METHOD 3		METHOD 4		METHOD 5		METHOD 6		
			D	N	D	N	D	N	D	N	D	N	N for D=110mm	N for D=150mm	N for D=250mm
SMOOTH WHEELED ROLLER OR VIBRATORY ROLLER OPERATING WITHOUT VIBRATION	Mass per metre width of roll: Over 2100 kg up to 2700 kg	BW141AD-5 BW151AD-5 BW154AD-5 BW151AD-4 BW161 ADCV-5 BW154 AP-4 BW177D-4 BW177DH-4 BW177 D-5 BW177 DH-5 BW 197 DH-5	125	8	125	10	Unsuitable		175	4	Unsuitable		Unsuitable	Unsuitable	Unsuitable
	Over 2700 kg up to 5400 kg	BW141AD-4 BW154AD-4 BW161AD-4 BW211D-4 BW 161 AD-5 BW 174 AP4i BW 161 ADO (Deadweight) BW213DH-4/4i BW214DH-4/4i BW216DH-4/4i BW 211D-4i BW213D/DH5 BW214D5 BW216D/DH5 BW6	125	6	125	8	Unsuitable		200	4	Unsuitable		16	Unsuitable	Unsuitable
			125	6	125	8	125	8	200	4	Unsuitable		16	Unsuitable	Unsuitable
	Over 5400 kg	BW219DH-4/4i BW226DH-4/4i BW219D5 BW226Di/DH5	150	4	150	8	Unsuitable		300	4	Unsuitable		8	16	Unsuitable
DEADWEIGHT TAMPING ROLLER (Padfoot Excluding Shell Kit)	Mass per metre width of roll: Over 4000 kg up to 6000 kg	BW216PDH-4/4i BW216PD/PDH5	225	4	150	12	250	4	350	4	Unsuitable		12	20	Unsuitable
	Over 6000 kg	BW219PDH-4/4i BW219PD/PDH5	300	5	200	12	300	3	400	4	Unsuitable		8	12	20
PNEUMATIC TYRED ROLLER	Mass per wheel: Over 2500 kg up to 4000 kg	BW24RH BW27RH4i	225	4	125	10	Unsuitable		400	4	Unsuitable		Unsuitable	Unsuitable	Unsuitable
VIBRATORY TAMPING ROLLER (BVC) products see bottom of page	Mass per metre width of a vibrating roll: Over 700 kg up to 1300 kg	BMP851 BMP8500	100	6	100	6	150	6	100	5	Unsuitable		Unsuitable	Unsuitable	Unsuitable
	Over 1300 kg up to 1800 kg	BW124PDH4	125	12	125	12	Unsuitable		175	8	Unsuitable		12	Unsuitable	Unsuitable
	Over 1800 kg up to 2300 kg	BW145PDH4 BW145PDH-5	150	12	150	12	Unsuitable		Unsuitable		Unsuitable		8	12	Unsuitable
	Over 2300 kg up to 2900 kg	BW177PDH-4 BW177 PDH5	150	9	150	9	Unsuitable		Unsuitable		400	5	6	10	Unsuitable
	Over 2900 kg up to 3600 kg	BW211PD-4/4i BW213PDH4/4i BW213PDH5 BW6S	200	9	200	9	Unsuitable		Unsuitable		500	6	6	10	Unsuitable
	Over 3600 kg up to 4300 kg	BW214PDH-4i BW214D5	225	9	225	9	Unsuitable		Unsuitable		600	6	4	8	Unsuitable
	Over 5000 kg	BW 216PDH4/4i BW219PDH4/4i BW216PDH5 BW219PDH5 BW226PDH5	275	9	275	9	Unsuitable		Unsuitable		800	6	3	6	10

Bomag VARIOCONTROLLED roller's (BVC) BW213/219/226 specially designed exciter system for sensitive to powerful compaction requirements.

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TYPES OF COMPACTION PLANT	CATEGORY	BOMAG MODEL	METHOD 1		METHOD 2		METHOD 3		METHOD 4		METHOD 5		METHOD 6		
			D	N	D	N	D	N	D	N	D	N	N for D=110 mm	N for D=150 mm	N for D=250 mm
VIBRATORY ROLLER	Mass per metre width of a vibrating roll: Over 270 kg up to 450 kg	BW55E	Unsuitable		75	16	150	16	Unsuitable		Unsuitable		Unsuitable		Unsuitable
	Over 450 kg up to 700 kg	BW71E-2 BW65H BW75H	Unsuitable Unsuitable		75 75	12 6	150 150	12 6	Unsuitable Unsuitable		Unsuitable Unsuitable		Unsuitable Unsuitable		Unsuitable Unsuitable
	Over 700 kg up to 1300 kg	BW80AD-2 BW80ADH-2 BW90AD-2 BW100ADM-2 BW80AD-5 BW90AD-5 BW100ADM-5 BW100AD-4 BW100AD-5 BW120AD-4 BW120AD-5	100	6	125	5	150	3	125	5	Unsuitable		16		Unsuitable
	Over 1300 kg up to 1800 kg	BW135AD BW135AD-5 BW138AD BW138AD-5 BW124DH	125	4	150	4	Unsuitable		175	2	Unsuitable		3	8	Unsuitable
			125	8	150	8	Unsuitable		175	4	Unsuitable		6	16	Unsuitable
	Over 1800 kg up to 2300 kg	BW145D-3 BW145DH-3 BW 145 D-5 BW 145 DH-5	150	4	150	4	Unsuitable		Unsuitable		Unsuitable		4	6	12
	Over 2300 kg up to 2900 kg	BW177D/DH-4 BW177D/DH-5 BW141AD4 BW141AD5 BW151AD4 BW151AD5 BW154AD5 BW 154 AP4	175	4	175	4	Unsuitable		Unsuitable		400	5	3	5	11
			175	2	175	2	Unsuitable		Unsuitable		400	3	2	3	6
	Over 2900 kg up to 3600 kg (BVC) products see bottom of page	BW179DH4 BW197DH5 BW211D4 BW213D/DH4/4i BW213D/DH5 BW6	200	4	200	4	Unsuitable		Unsuitable		500	5	3	5	10
			200	4	200	4	275	8	Unsuitable		500	5	3	5	10
225			4	225	4	Unsuitable		Unsuitable		600	5	2	4	8	
Over 3600 kg up to 4300 kg	BW214DH4/4i BW214D5	250	4	250	4	Unsuitable		Unsuitable		700	5	2	4	7	
Over 4300 kg up to 5000 kg	BW216D-4/4i	275	4	275	4	Unsuitable		Unsuitable		800	5	2	3	6	
Over 5000 kg (BVC) products see bottom of page	BW216DH4/4i BW219DH4/4i BW226DH4/4i BW216D/DH5 BW219D5 BW226D/DH5	275	4	275	4	Unsuitable		Unsuitable		800	5	2	3	6	
VIBRATING PLATE COMPACTOR	Mass per m2 of base plate: Below 880 kg	BP6/30 BP8/34 BP10/36-2 BP18/45-2 BP18/45D-2 BPR25/45-3 BVP10/30&10/36 BVP18/45 BP10/35 BP12/40 BP12/50A BP20/50D	SEE CLAUSE 612, SUB CLAUSE 6 For procedure on use of alternative methods (Testing to confirm – i.e. proof rolling)												
	Over 880 kg up to 1100 kg	BPR35/60D BPR 25/40D	Unsuitable		Unsuitable		75	6	Unsuitable		Unsuitable		Unsuitable		Unsuitable
	Over 1400 kg up to 1800 kg	BPR35/42D BPR45/55D BPR55/65D BPR70/70D	100	6	125	6	150	4	Unsuitable		Unsuitable		8	Unsuitable	Unsuitable
	Over 2100 kg	BPH80/65S BPR100/80D	200	6	200	5	250	4	Unsuitable		Unsuitable		3	6	12
VIBROTAMPER	Mass: Over 50 kg up to 65 kg	BT60/4	100	3	100	3	150	3	125	3	Unsuitable		4	8	Unsuitable
	Over 65 kg up to 75 kg	BT65/4 BVT65	125	3	125	3	200	3	150	3	Unsuitable		3	6	12
	Over 75 kg up to 100 kg	BT80D	150	3	150	3	225	3	175	3	Unsuitable		2	4	10

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