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SECTION 8A

VIBRATORY ROLLERS (JV60 ~ JV180)

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- **Large Compaction Force:**
  The larger centrifugal force allows for a thicker layer compaction, which in turn allows a fewer number of shuttle runs over the surface for reduced operating cost.

- **Articulated Frame for High Mobility:**
  The frame articulation provides a small turning radius, making the machine highly mobile even in restricted areas.

- **Easy Compaction on Road Shoulders:**
  The frame overhang on both sides allows compaction very close to curbstones or fences.

- **One-Lever Hydrostatic Transmission System:**
  The hydrostatic transmission allows directional changes, starts, brakings and stops to be achieved with only one lever. Also, it allows travel speed to be controlled to optimum levels to suit operation.

- **Comfortable to Operate:**
  A rubber-mounted operator's compartment is designed to reduce vibration for improved operator comfort. The operator seat, sliding for and aft, provides the optimum driving position for any size of operators.
  Additionally, full-hydraulic power steering assures light control effort.

- **Economical, Durable Engine:**
  The engine, featuring direct injection and troidal combustion chambers, offers proven durability and low fuel consumption. The hydrostatic transmission assures excellent flat torque for very smooth operation.

- **Automatic Vibration Shut-off System:**
  This system sees to it that, when vibration switch is on, drum vibration automatically stops as the machine slows to a halt. When vibration is not needed, simply turn the switch off.

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Specifications

VIBRATORY ROLLERS JV60~JV180

Item	Model	JV60DWA	JV60CWA	JV80CA	JV80CWA
Usage		For asphalt	For asphalt	For asphalt	For asphalt
WEIGHT:	kg(lb)				
Operating weight		6400 (14,110)	6200 (13,670)	7700 (16,980)	7700 (16,980)
Weight distribution:					
Front drum		3090 (6,810)	3090 (6,810)	3300 (7,280)	3300 (7,280)
Rear drum		3310 (7,300)	3110 (6,860)	4400 (9,700)	4400 (9,700)
Flywheel horsepower	HP(kW)/RPM	51(38)/2300	51(38)/2300	67(50)/2300	67(50)/2300
PERFORMANCE:					
Travel speed:	km/h(MPH)				
Forward and reverse 1st		12 (7.5)	10 (6.2)	13.5 (8.4)	10.5 (6.5)
2nd		–	–	–	–
Cycle of vibration:	CPM				
Front drum		–	–	2000	2000
Rear drum		2000/3000	2000/3000	3000	3000
Centrifugal force:	kg(lb)				
Front drum		–	–	7550 (16,640)	7550 (16,640)
Rear drum		5510 (12,140)	5510 (12,140)	6530 (14,400)	6530 (14,400)
Compacting width	mm(ft·in)	1400 (4′ 7″)	1400 (4′ 7″)	1650 (5′ 5″)	1650 (5′ 5″)
Turning radius	m(ft·in)	2.45 (8′)	2.45 (8′)	3.65 (12′)	3.65 (12′)
ENGINE:		DEUTZ	DEUTZ	DEUTZ	DEUTZ
Model		F3L912	F3L912	F4L912	F4L912
Number of cylinders-		3 – 100 × 120	3 – 100 × 120	4 – 100 × 120	4 – 100 × 120
Bore × Stroke	mm(in)	(3.94″ × 4.72″)	(3.94″ × 4.72″)	(3.94″ × 4.72″)	(3.94″ × 4.72″)
Piston displacoment	ltr.(cu.in)	2.83 (173)	2.83 (173)	3.77 (230)	3.77 (230)
TRANSMITTING SYSTEM:					
Transmission		HST	HST	HST	HST
Gearshift		Stepless	Stepless	Stepless	Stepless
Reverser		Swash-plate type Variable-capacity pump	Swash-plate type Variable-capascity pump	Swash-plate type Variable-capacity pump	Swash-plate type Variable-capacity pump
Final drive		Planetary gear	Planetary gear	Planetary gear	Planetary gear
CAPACITY:	ltr.(U.S.gal)				
Fuel tank		110 (26.4)	110 (26.4)	110 (29)	110 (29)

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Specifications

VIBRATORY ROLLERS
JV60~JV180

Item \ Model		JV80A	JV80WA	JV100A-1	JV100WP-1
Usage		For soil	For soil	For soil	For soil
WEIGHT:	kg(lb)				
Operating weight		8000 (17,640)	8000 (17,640)	9600 (21,160)	11490 (25,330)
Weight distribution:					
Front drum		3300 (7,280)	3300 (7,280)	5090 (11,220)	6830 (15,055)
Rear drum		4700 (10,360)	4700 (10,360)	4510 (9,940)	4660 (10,275)
Flywheel horsepower	HP(kW)/RPM	67(50)/2300	67(50)/2300	130(97)/2400	130(97)/3000
PERFORMANCE:					
Travel speed:	km/h(MPH)				
Forward and reverse 1st		13.5 (8.4)	10.5 (6.5)	6 (3.7)	5.6 (3.5)
2nd		–	–	14 (8.7)	10.7 (6.6)
3rd		–	–	28 (17.4)	–
Cycle of vibration:	CPM				
Front drum		2000	2000	1800	1800
Rear drum		3000	3000	–	–
Centrifugal force:	kg(lb)				
Front drum		7550 (16,640)	7550 (16,640)	20000 (44,090)	23700 (52,250)
Rear drum		6530 (14,400)	6530 (14,400)	–	–
Compacting width	mm(ft·in)	1650 (5' 5")	1650 (5' 5")	2130 (7')	2130 (7')
Turning radius	m(ft·in)	3.65 (12')	3.65 (12')	5.1 (16' 8")	5.3 (17' 5")
ENGINE:		DEUTZ F4L912	DEUTZ F4L912	KOMATSU S6D105	KOMATSU S6D95
Model					
Number of cylinders-		4 – 100 × 120	4 – 100 × 120	6 – 105 × 125	6 – 95 × 125
Bore × Stroke	mm(in)	(3.94" × 4.72")	(3.94" × 4.72")	(4.13" × 4.92")	(3.74" × 4.53")
Piston displacement	ltr.(cu.in)	3.77 (230)	3.77 (230)	6.49 (396)	4.89 (298)
TRANSMITTING SYSTEM:					
Transmission		HST	HST	HST	HST
Gearshift		Stepless	Stepless	3-forward, 3-reverse	2-forward, 2-reverse
Reverser		Swash-plate type Variable-capacity pump	Swash-plate type Variable-capacity pump	Swash-plate type Variable-capacity pump	Swash-plate type Variable-capacity pump
Final drive		Planetary gear	Planetary gear	planetary gear	Pianetary gear
CAPACITY:	ltr.(U.S.gal)				
Fuel tank		110 (29)	110 (29)	235 (62.1)	235 (62.1)

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Specifications

VIBRATORY ROLLERS JV60~JV180

Item	Model	JV100WA-1	JV100DWB	JV100DWA	JV100CWA
Usage		For soil	For asphalt	For asphalt	For asphalt
WEIGHT:	kg(lb)				
Operating weight		10590 (23,345)	10300 (22,710)	9700 (21,380)	9700 (21,380)
Weight distribution:					
Front drum		5900 (13,005)	5100 (11,240)	4500 (9,920)	4500 (9,920)
Rear drum		4690 (10,340)	5200 (11,460)	5200 (11,460)	5200 (11,460)
Flywheel horsepower	HP(kW)/RPM	130(97)/2400	84(62)/2150	84(62)/2150	84(62)/2150
PERFORMANCE:					
Travel speed:	km/h(MPH)				
Forward and reverse 1st		6 (3.7)	12 (7.5)	12 (7.5)	10 (6.2)
2nd		9.6 (6.0)	–	–	–
3rd		13.2 (8.2)	–	–	–
Cycle of vibration:	CPM				
Front drum		1800	2000/3000	–	–
Rear drum		–	2000/3000	2000/3000	2000/3000
Centrifugal force:	kg(lb)				
Front drum		23700 (52,250)	8670 (19,110)	–	–
Rear drum		–	8670 (19,110)	8670 (19,110)	8670 (19,110)
Compacting width	mm(ft·in)	2130 (7')	1650 (5' 5")	1650 (5' 5")	1650 (5' 5")
Turning radius	m(ft·in)	5.3 (17' 5")	3.5 (11' 6")	3.5 (11' 6")	3.5 (11' 6")
ENGINE:					
Model		KOMATSU S6D105	DEUTZ F5L912	DEUTZ F5L912	DEUTZ F5L912
Number of cylinders- Bore × Stroke	mm(in)	6 – 105 × 125 (4.13" × 4.92")	5 – 100 × 120 (3.94" × 4.72")	5 – 100 × 120 (3.94" × 4.72")	5 – 100 × 120 (3.94" × 4.72")
Piston displacement	ltr.(cu.in)	6.49 (396)	4.71 (287)	4.71 (287)	4.71 (287)
TRANSMITTING SYSTEM:					
Transmission		HST	HST	HST	HST
Gearshift		3-forward, 3-reverse	Stepless	Stepless	Stepless
Reverser		Swash-plate type Variable-capacity pump	Swash-plate type Variable-capacity pump	Swash-plate type Variable-capacity pump	Swash-plate type Variable-capacity pump
Final drive		planetary gear	planetary gear	planetary gear	planetary gear
CAPACITY:	ltr.(U.S.gal)				
Fuel tank		235 (62.1)	170 (44.9)	170 (44.9)	170 (44.9)

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Specifications

VIBRATORY ROLLERS
JV60~JV180

Item \ Model		JV110A	JV110	JV110WA	JV110W
Usage		For soil	For soil	For soil	For soil
WEIGHT:	kg(lb)				
Operating weight		9700 (21,380)	9700 (21,380)	9900 (21,830)	9700 (21,380)
Weight distribution:					
Front drum		5600 (12,350)	5600 (12,350)	5800 (12,790)	5600 (12,350)
Rear drum		4100 (9,040)	4100 (9,040)	4100 (9,040)	4100 (9,040)
Flywheel horsepower	HP(kW)/RPM	114(85)/2300	114(85)/2300	114(85)/2300	114(85)/2300
PERFORMANCE:					
Travel speed:	km/h(MPH)				
Forward and reverse 1st		12 (7.5)	12 (7.5)	10 (6.2)	10 (6.2)
2nd		–	–	–	–
3rd		–	–	–	–
Cycle of vibration:	CPM				
Front drum		1800	1800	1800	1800
Rear drum		2500	–	2500	–
Centrifugal force:	kg(lb)				
Front drum		20400 (44,970)	20400 (44,970)	20400 (44,970)	20400 (44,970)
Rear drum		15300 (33,730)	–	15300 (33,730)	–
Compacting width	mm(ft·in)	2100 (6' 11")	2100 (6' 11")	2100 (6' 11")	2100 (6' 11")
Turning radius	m(ft·in)	4.55 (14'11")	4.55 (14'11")	4.55 (14'11")	4.55 (14'11")
ENGINE:		DEUTZ	DEUTZ	DEUTZ	DEUTZ
Model		F6L913	F6L913	F6L913	F6L913
Number of cylinders-		6 – 102 × 125	6 – 102 × 125	6 – 102 × 125	6 – 102 × 125
Bore × Stroke	mm(in)	(4.02" × 4.92")	(4.02" × 4.92")	(4.02" × 4.92")	(4.02" × 4.92")
Piston displacement	ltr.(cu.in)	6.128 (374)	6.128 (374)	6.128 (374)	6.128 (374)
TRANSMITTING SYSTEM:					
Transmission		HST	HST	HST	HST
Gearshift		Stepless	Stepless	Stepless	Stepless
Reverser		Swash-plate type Variable-capacity pump	Swash-plate type Variable-capacity pump	Swash-plate type Variable-capacity pump	Swash-plate type Variable-capacity pump
Final drive		Planetary gear	Planetary gear	Planetary gear	Planetary gear
CAPACITY:					
Fuel tank	ltr.(U.S.gal)	250 (66)	250 (66)	250 (66)	250 (66)

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Specifications

VIBRATORY ROLLERS
JV60~JV180

Item	Model	JV110WAHD	JV110WHD	JV110WAP	JV110WP
Usage		For soil	For soil	For soil	For soil
WEIGHT:	kg(lb)				
Operating weight		10800 (23,810)	10800 (23,810)	11100 (24,470)	11100 (24,470)
Weight distribution:					
Front drum		6700 (14,770)	6700 (14,770)	7000 (15,430)	7000 (15,430)
Rear drum		4100 (9,040)	4100 (9,040)	4100 (9,040)	4100 (9,040)
Flywheel horsepower	HP(kW)/RPM	114(85)/2300	114(85)/2300	114(85)/2300	114(85)/2300
PERFORMANCE:					
Travel speed:	km/h(MPH)				
Forward and reverse 1st		10 (6.2)	10 (6.2)	10 (6.2)	10 (6.2)
2nd		–	–	–	–
Cycle of vibration:	CPM				
Front drum		1800	1800	1800	1800
Rear drum		2500	–	2500	–
Centrifugal force:	kg(lb)				
Front drum		24480 (53,970)	24480 (53,970)	24480 (53,970)	24480 (53,970)
Rear drum		18360 (40,480)	–	18360 (40,480)	–
Compacting width	mm(ft·in)	2100 (6' 11")	2100 (6' 11")	2100 (6' 11")	2100 (6' 11")
Turning radius	m(ft·in)	4.55 (14'11")	4.55 (14'11")	4.55 (14'11")	4.55 (14'11")
ENGINE:		DEUTZ	DEUTZ	DEUTZ	DEUTZ
Model		F6L913	F6L913	F6L913	F6L913
Number of cylinders-		6 – 102 × 125	6 – 102 × 125	6 – 102 × 125	6 – 102 × 125
Bore × Stroke	mm(in)	(4.02" × 4.92")	(4.02" × 4.92")	(4.02" × 4.92")	(4.02" × 4.92")
Piston displacement	ltr.(cu.in)	6.128 (374)	6.128 (374)	6.128 (374)	6.128 (374)
TRANSMITTING SYSTEM:					
Transmission		HST	HST	HST	HST
Gearshift		Stepless	Stepless	Stepless	Stepless
Reverser		Swash-plate type Variable-capacity pump	Swash-plate type Variable-capacity pump	Swash-plate type Variable-capacity pump	Swash-plate type Variable-capacity pump
Final drive		Planetary gear	Planetary gear	Planetary gear	Planetary gear
CAPACITY:	ltr.(U.S.gal)				
Fuel tank		250 (66)	250 (66)	250 (66)	250 (66)

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Specifications

VIBRATORY ROLLERS JV60~JV180

Item \ Model		JV140WA	JV140WAP	JV180WA	JV180WAP
Usage		For soil	For soil	For soil	For soil
WEIGHT:	kg(lb)				
Operating weight		13600 (29,980)	13900 (30,640)	17500 (38,580)	17800 (39,240)
Weight distribution:					
Front drum		8400 (18,520)	8700 (19,180)	10500 (23,150)	10800 (23,810)
Rear drum		5250 (11,570)	5250 (11,570)	7000 (15,430)	7000 (15,430)
Flywheel horsepower	HP(kW)/RPM	121(90)/2500	121(90)/2500	160(119)/2500	160(119)/2500
PERFORMANCE:					
Travel speed:	km/h(MPH)				
Forward and reverse 1st		8.5 (5.3)	8.5 (5.3)	10 (6.2)	10 (6.2)
2nd		–	–	–	–
Cycle of vibration:	CPM				
Front drum		1800	1800	1800	1800
Rear drum		2500	2500	2500	2500
Centrifugal force:	kg(lb)				
Front drum		27540 (60,710)	27540 (60,710)	30600 (67,460)	30600 (67,460)
Rear drum		20400 (44,970)	20400 (44,970)	22440 (49,470)	22440 (49,470)
Compacting width	mm(ft·in)	2100 (6' 11")	2100 (6' 11")	2100 (6' 11")	2100 (6' 11")
Turning radius	m(ft·in)	4.62 (15' 2")	4.62 (15' 2")	4.7 (15' 5")	4.7 (15' 5")
ENGINE:		DEUTZ	DEUTZ	DEUTZ	DEUTZ
Model		F6L913	F6L913	BF6L913	BF6L913
Number of cylinders-		6 – 102 × 125	6 – 102 × 125	6 – 102 × 125	6 – 102 × 125
Bore × Stroke	mm(in)	(4.02" × 4.92")	(4.02" × 4.92")	(4.02" × 4.92")	(4.02" × 4.92")
Piston displacement	ltr.(cu.in)	6.128 (374)	6.128 (374)	6.128 (374)	6.128 (374)
TRANSMITTING SYSTEM:					
Transmission		HST	HST	HST	HST
Gearshift		Stepless	Stepless	Stepless	Stepless
Reverser		Swash-plate type Variable-capacity pump	Swash-plate type Variable-capacity pump	Swash-plate type Variable-capacity pump	Swash-plate type Variable-capacity pump
Final drive		Planetary gear	Planetary gear	Planetary gear	Planetary gear
CAPACITY:	ltr.(U.S.gal)				
Fuel tank		250 (66)	250 (66)	250 (66)	250 (66)

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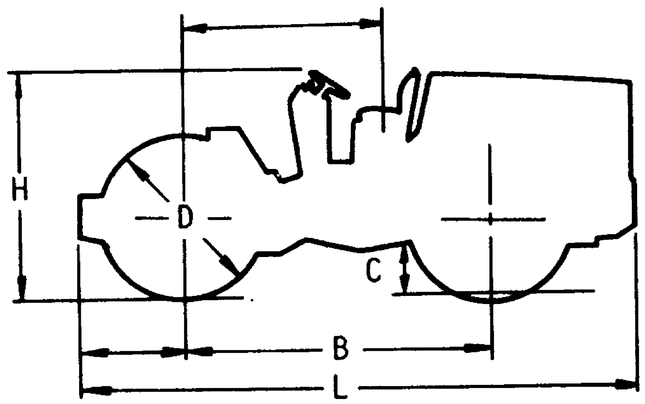
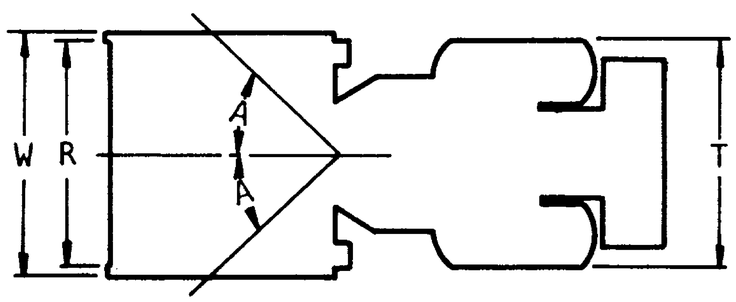
Dimensions

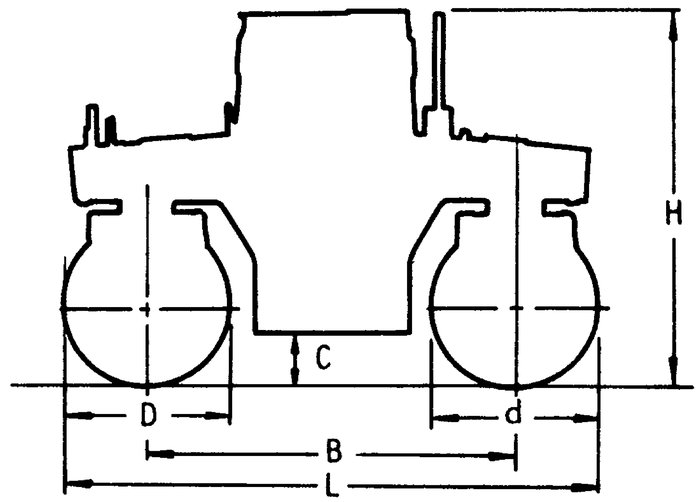
VIBRATORY ROLLERS
JV60~JV180

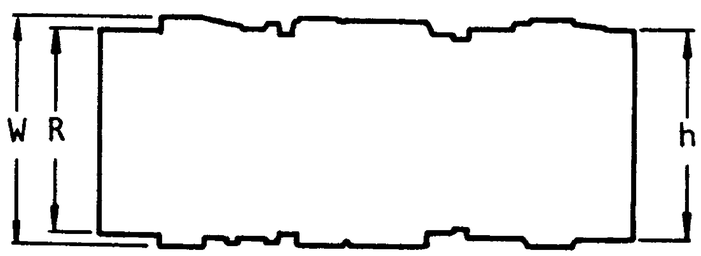
JV80, JV100(A,WP,WA)
JV110, JV140, JV180





JV60,
JV100(DWB, DWA, CWA)





Unit:
mm(ft.in)

	JV60 DWA	JV60 CWA	JV80 CA	JV80 CWA	JV80 A	JV80 WA	JV100 A	JV100 WP	JV100 WA	JV100 DWB	JV100 DWA	JV100 CWA
W	1670 (5'6")	1670 (5'6")	1820 (6')	1820 (6')	1820 (6')	1820 (6')	2330 (7'8")	2350 (7'9")	2350 (7'9")	1850 (6'1")	1850 (6'1")	1850 (6'1")
L	3750 (12'4")	3770 (12'4")	4590 (15'1")	4590 (15'1")	4590 (15'1")	4590 (15'1")	5200 (17'1")	5415 (17'9")	5335 (17'6")	4270 (14')	4270 (14')	4325 (14'2")
*H	2770 (9'1")	2770 (9'1")	2700 (8'10")	2700 (8'10")	2700 (8'10")	2700 (8'10")	2150 (7')	2150 (7'1")	2150 (7'1")	2970 (9'9")	2970 (9'9")	2970 (9'9")
R	1300 (4'3")	1300 (4'3")	1650 (5'5")	1650 (5'5")	1650 (5'5")	1650 (5'5")	2130 (7')	2130 (7')	2130 (7')	1650 (5'5")	1650 (5'5")	1592 (5'3")
r	1400 (4'7")	1400 (4'7")	–	–	–	–	–	–	–	1650 (5'5")	1650 (5'5")	1650 (5'5")
T	–	–	1510 (4'11")	1510 (4'11")	1530 (5')	1530 (5')	1530 (5'1")	1530 (5'1")	1530 (5'1")	–	–	–
A	–	–	30°	30°	30°	30°	40°	40°	40°	–	–	–
B	2650 (8'8")	2650 (8'8")	2400 (7'10")	2400 (7'10")	2400 (7'10")	2400 (7'10")	2850 (9'4")	2985 (9'10")	2985 (9'10")	2970 (9'9")	2970 (9'9")	2970 (9'9")
C	340 (1'1")	340 (1'1")	330 (1'1")	330 (1'1")	330 (1'1")	330 (1'1")	410 (1'4")	410 (1'4")	410 (1'4")	420 (1'5")	420 (1'5")	420 (1'5")
D	1100 (3'7")	1100 (3'7")	1200 (3'11")	1200 (3'11")	1200 (3'11")	1200 (3'11")	1520 (5')	1730 (5'8")	1520 (5')	1300 (4'3")	1300 (4'3")	1300 (4'3")
d	1100 (3'7")	1100 (3'7")	–	–	–	–	–	–	–	1300 (4'3")	1300 (4'3")	1300 (4'3")

* Max height

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Unit: mm(ft.in)

	JV110 A	JV110	JV110 WA	JV110 W	JV110 WAHD	JV110 WHD	JV110 WAP	JV110 WP	JV140 WA	JV140 WAP	JV180 WA	JV180 WAP
W	2268 (7'5")	2268 (7'5")	2395 (7'10")	2395 (7'10")	2425 (7'11")	2425 (7'11")	2425 (7'11")	2425 (7'11")	2425 (7'11")	2425 (7'11")	2490 (8'2")	2490 (8'2")
L	5555 (18'3")	5555 (18'3")	5555 (18'3")	5555 (18'3")	5555 (18'3")	5555 (18'3")	5555 (18'3")	5555 (18'3")	5780 (19')	5780 (19')	5830 (19'2")	5830 (19'2")
H	2910 (9'7")	2910 (9'7")	2910 (9'7")	2910 (9'7")	2910 (9'7")	2910 (9'7")	2935 (9'8")	2935 (9'8")	2910 (9'7")	2935 (9'8")	2910 (9'7")	2935 (9'8")
R	2100 (6'11")	2100 (6'11")	2100 (6'11")	2100 (6'11")	2100 (6'11")	2100 (6'11")	2100 (6'11")	2100 (6'11")	2100 (6'11")	2100 (6'11")	2100 (6'11")	2100 (6'11")
r	–	–	–	–	–	–	–	–	–	–	–	–
T	2060 (6'9")	2060 (6'9")	2060 (6'9")	2060 (6'9")	2060 (6'9")	2060 (6'9")	2060 (6'9")	2060 (6'9")	2060 (6'9")	2060 (6'9")	2060 (6'9")	2060 (6'9")
A	30°	30°	30°	30°	30°	30°	30°	30°	30°	30°	30°	30°
B	2925 (9'7")	2925 (9'7")	2925 (9'7")	2925 (9'7")	2925 (9'7")	2925 (9'7")	2925 (9'7")	2925 (9'7")	2975 (9'9")	2975 (9'9")	3000 (9'10")	3000 (9'10")
C	430 (1'5")	430 (1'5")	430 (1'5")	430 (1'5")	430 (1'5")	430 (1'5")	430 (1'5")	430 (1'5")	430 (1'5")	430 (1'5")	430 (1'5")	430 (1'5")
D	1500 (4'11")	1500 (4'11")	1500 (4'11")	1500 (4'11")	1510 (5')	1510 (5')	1600 (5'3")	1600 (5'3")	1550 (5'1")	1650 (5'5")	1600 (5'3")	1700 (5'7")
d	–	–	–	–	–	–	–	–	–	–	–	–