#### RESTRICTED

### **SECTION 72- PAVEMENTS QUANTITLES**

1507. Table 15.1 gives the volume of material required for various widths and thic knesses of construction.

1508. In assessing transport requirements, use Figures relating to the uncompacted thickness of material.

## TABLE 15.1-PAVEMENTS DESIGNS SUITABLE FOR GIVEN TRAFIC AND SUBGRADE CONDITIONS

(To be used as a guide in hasty work)

Type of traffic	Type of sub-		Suitable pavement		
	grade	Sub-base	Base	Surfacing	
(a)	(b)	(c)	(d)	(e)	
Light, ie, cars,	Soft (Loam, soft	6 ins gravel	6 ins hardcore,	3 ins gravel	
light vans, $\frac{1}{4}$ ton	clay)	or clinker	stone pitching,		
•			or macadam		
trucks or wheel		ditto	Ditto	2 ins	
load is $\frac{1}{2}$ ton				bituminous	
2				surfacing	
		ditto	4 in 1:2:4	-	
			concrete		
	Medium (Sand,	3 ins gravel	6 ins hardcore,	3ins gravel	
	stift clay, chalk,	or clinker	stone pitching		
	gravel)		or macadam		
		ditto	Ditto	2ins	
				bituminous	
				surfacing	
		ditto	4ins 1:2:4	-	
			concrete		
	Hard (Gravel,	-	-	3 ins gravel	
	solid chalk,	3 ins sand or	-	3 ins gravel	
	rock)	gravel			
		-	3 ins gravel or	2 ins	
			clinker	bituminous	
				surfacing	
Medium, ie,	Soft (Loam, soft	6 ins gravel	6 ins hardcore,	Bituminous	
trucks (load not	clay)	or clinker	stone pitching,	surfacing	
exceeding 3			or macadam		
tons) or		ditto	4 ins 1:2:4	-	
when maximum			concrete		

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	KES	TRICIED	1	1
wheel load is 4		3 ins gravel	6 ins 1:2:4	-
tons		or clinker	concrete	
(approximately		6 ins gravel	9 ins hardcore,	3 ins gravel
Class 9 vehicles)		or clinker	stone pitching,	
			or macadam	
		ditto	Ditto	3 ins
				bituminous
				surfacing
	Medium (Sand,	3 ins gravel	6 ins hardcore,	Bituminous
	stiff clay, chalk,	or clinker	stone pitching,	surfacing
	gravel)		or macadam	Surraying
	gravery	ditto	4 ins 1:2:4	_
		unto	concrete	
		6 ins gravel	6 ins hardcore,	1
		_	· ·	$2\frac{1}{2}$
		or clinker	stone pitching,	bituminous
			or macadam	
	H 1 (C 1		2 : 1	surfacing
	Hard (Gravel,	-	3 ins gravel or	$2\frac{1}{2}$
	solid chalk,		clinker	_
	rock)			bituminous
			4 . 124	surfacing
		1 in sand or	4 ins 1:2:4	-
		clinker	concrete	
		-	6 ins hardcore,	3 ins gravel
			stone pitching,	
			or macadam	
Heavy, ie, trucks	Soft (Loam, soft	6 ins gravel	9 ins hardcore,	3 ins
(load exceeding	clay)	or clinker	stone pitching,	bituminous
3 ton) or			or macadam	surfacing
when maximum		ditto	6 ins 1:2:4	-
wheel load is 4			concrete	
tons		ditto	8 ins 1:2:4	-
(approximately			concrete	
Class 40	Medium	3 ins gravel	9 ins hardcore,	3 ins gravel
vehicles)	(Sand,stiff clay,	or clinker	stone pitching,	
ĺ	chalk, gravel)		or macadam	
	chain, graver)	ditto	Ditto	3 ins
		anto	Ditto	bituminous
				surfacing
		ditto	6 ins 1:2:4	Ŭ
1		uitto	0 IIIS 1:2:4	-

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		concrete	
Hard (Gravel, solid chalk)	-	6 ins hardcore, stone pitching, or macadam	$2\frac{1}{2}$ bituminous surfacing
	1 in sand or clinker	4 ins 1:2:4 concrete	-

# TABLE 15.2-VOLUME OF MATERIAL REQUIRED FOR VARIOUS WIDTHS AND THICKNESS OF CONSTRUCTION LAYERS

Ser	Road	Volume of material required					
No	width (ft)	Thickness of construction layer					
		$1\frac{1}{2}$ ins	2ins	$2\frac{1}{2}$ ins	3 ins	4 ins	6 ins
		Cu	Cu yds per 100 yds length				
1	9	12.5	16.7	20.8	25.0	33.3	50.0
2	10	13.9	18.5	23.2	27.8	37.1	55.6
3	12	16.7	22.2	27.8	33.3	44.4	66.8
4	16	22.2	29.7	37.0	44.4	59.3	88.9
5	18	25.0	33.3	41.7	50.0	66.7	100.0
6	20	27.8	37.0	46.3	55.6	74.1	111.2
7	24	33.3	44.4	55.6	66.7	88.9	133.2
8	30	41.7	55.6	69.4	83.3	111.0	166.8
		Cu yds per mile length					
9	9	220	293	367	440	587	880
10	10	245	396	408	489	652	978
11	12	293	391	489	587	782	1172
12	16	391	522	652	782	1043	1565
13	18	440	587	733	880	1173	1760
14	20	489	652	815	978	1304	1956
15	24	587	782	978	1173	1565	2348
16	30	733	978	1222	1467	1956	2932