

SECTION 135- PAVED SURFACES

2839. Paved surfaces are sometimes used in areas subject to exceptionally heavy traffic. New construction is not recommended for military purposes as laying is slow and demands skilled labor but the repair of existing paving may have to be undertaken.

2840. Methods of laying vary, and repair work is best done by local labor. The normal sequence is:-

- (a) Construction of the base and kerbs.
- (b) Spreading the cushion or bedding course.
- (c) Laying the blocks.
- (d) Filling the joints.

2841. The base must have a bearing value at least equal to that required for the pavement surface. For heavy wheel – loads or large volumes of traffic paving are laid only on concrete.



Figure 28-16: Brick Paving



Figure 28-17: Stone Paving

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2842. Types of paving and details of bedding course and joint filling are given in

TABLE 28.4- TYPES OF PAVED SURFACE

Serial No	Type of paving	Bedding course	Joint filling	Remarks
(a)	(b)	(c)	(d)	(e)
1	Stone setts	Send or sand – bitumen (5 to $8\frac{1}{2}$ per cent of cutback) 1 to $2\frac{1}{2}$ ins thick	Bitumen or tar•	Granite or basalt normally 4 to ins thick. Standard rectangular sets are laid in horizontal courses with staggered joints Cubical blocks (4-in cube) may be laid in a series of circular segments.
2.	Pave	Formerly laid in sand over gravel Now usually bedded on concrete	Not Normally grouted	8-in cubes or hard tertiary sandstone of quartzite.
3.	Brick	Send or sand bitumen in $\frac{1}{4}$ thick	Bitumen or tar•	Paving bricks are vitrified and annealed. They are laid on edge. with $\frac{3}{4}$ in joints ordinary building bricks are unsuitable
4.	Wood blocks- (a) Hardwood (b) Softwood	Sand $\frac{1}{2}$ in thick None	Hot bitumen grout squeegeed over the	Thickness of blocks varies from $3\frac{1}{2}$ to 5 ins, depending ofn

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			surface	type of timber. Soft wood blocks must be creosoted under pressure.
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* A creamy grout of one part Portland cement and one-part sharp sand can be used by booming over the surface until all joints are filled but this may make the paving so rigid that expansion joints are necessary.