SECTION 114-PREFABRICATED METAL TRACKS

- 2538. Brief particulars of Somerfield track, square mesh track and channel track are included in table 3.8
- 2539. Pierced metal planking can be used for road surfacing. The main features of existing types are summarized in table 25.7.
- 2540. The bearing strength of pierced metal planking is equivalent to about 6 ins of base, provided that it is firmly bedded on a properly levelled and well drained subgrade or base. When deformed, its load distributing power is largely destroyed.
- 2541. For operational roads to carry a 10.000 lb wheel load PSP may be laid direct on a subgrade with a CBR value of 15 or more. If the natural CBR value is too low determine the thickness of base required, as described in section 34, allowing an equivalent thickness of 6 ins in respect of the PSP.
- 2542. Metal planking is slippery in wet and frosty weather. On wet upgrades planning tends to pump mud upwards on to the surface. This may be prevented by laying it over PBS (see para 677).

In arid conditions the underlying surface should be dustproofed by spraying oil at ¼ gallon per sqyd, or by applying a bitumen sealing coat.

2543. Metal planking is normally supplied in bundles of 20 planks, secured by metal bands and wire. The minimum party for laying only is 1 NCO and 10 men for a single 10 ft width, including the opening of bundles and levering to correct the alignment, but excluding any carrying party. Organization depends primarily upon the method of delivering stores, but laying must be phased in with site preparation and essential drainage work. Whenever possible, panels should be unloaded in small dumps at proper intervals along one side of the alignment.

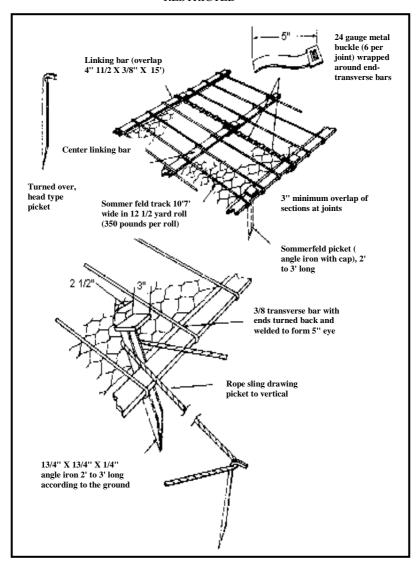


Figure 25-17: Somerfield Matt

114-2 RESTRICTED

RESTRICTED **Table 25.7: pierced metal plank**

Ser No	Tape	Dimensions of	Unit	Gross	Time for	Approx	Remarks
		plank	weight	weight per	laying only	number of	
				100 yds	single width	3 ton	
					100 yd length	truck	
					(1 NCO and	loads per	
					10 men)	100 yds	
1.	PSP	10 '- 0 " x 1'-	65 lb	6.9 tons	2 ½ - 3 hours	2 1/2	Planks connected by bayonet
		3"		per panel			hooks and slots, locked with
				width			spring clips. Ends tend to curl
							and individual planks may be
							difficult to replace.
2.	M6	10 '- 0 " x 1'-	68.5 lb	7.33 tons	2 ½ - 3 hours	2 1/2	Connectors looked by built in
	(American)	3"		per panel			lugs. Can be used with serial no
				width			1. End curl is reduced and plank
							replacement simplified.
3.	M8 steel	11 '- 9 ¾ " x	140 lb	10 tons	2-2 1/2 hours	3 1/2	Primarily for airfield use.
	landing mat	1'-7 ½"		(approx)			Modified form of M6 to
				per panel			withstand heavier wheel loading.
				width			Connectors have bayonet hooks
							only on the other side.

4.	M9 aluminum	11 '- 9 ¾ " x	67 lb	4.1 tons	1 ¾ hours	1 1/2	Both purpose and design are
	landing mat	1'-10 ¼"		(approx)			similar to serial no 3.

^{*}These times are only approximate as they are not based on full scale trials.

Few modern Metal Track of UK

- 2544. <u>Class 30 track way</u>. The Class 30 track way consists of a number of individual planks, 3.35 m long by 228 mm wide, of interlocking light alloy extrusions which a reassembled together to form a continuous surface 3.35 m wide. The upper surface of the track, ie the running surface, is fitted with anti-skid ridge sand slots which prevent wheeled traffic from sliding sideways.
- 2545. The equipment provides a rapid means of crossing all types of bad goingfrom soft mud and clay to ploughed fields and beach shingle. It will carryany wheeled or rubber tracked vehicle up to Class 30.

Tanks up to Class50 can cross the track at an angle, but they must be driven carefully and not slewed whilst on the track.



Figure 25-18:Class 30 Track Way - Forward Laying.

2546. <u>Boughton class 30 track way dispenser</u>. The Class 30 Trackway Dispenser is designed to be fitted onto a Case 721front end quick hitch (can be fitted to the Volvo 4400). The dispenser is arectangular metal frame that has a right-angled metal frame attached toeach end, with hydraulic hoses that attach to the main hydraulic system ofthe equipment, to allow rotation, laying and recovery of a roll of Class 30trackway. If the hydraulic power on the dispenser shouldfail, the trackway can be recovered manually using the ratchet spanners provided.



Figure 25.19: Class 30 Track Way Dispenser Fitted to case 721 Medium wheeled tractor.



Figure 25-20: Class 30 Track Way Being Laid.

114-6 RESTRICTED

Class 70 Trackway

2547. The Class 70 trackway is designed to provide a common surface forwheeled and tracked vehicles at the approaches to, and exits from, bridgeand ferry sites. The planks are in lengths of 4.57 m and 2.28 m, the width in each case being 230 mm (*see* Figure 25.21). The longer planks each weigh 33.1 kg and the shorter ones 16.8 kg.



Figure 25-21: Class 70 Track Way – Sliding Panels Together.



Figure 25-22: Class 70 Track Way – Preassembled Roll.