

Stabilisation Calculation

Length 500m, Width 4,0m, Depth 150mm.

Maximum dry density = 2160kg/m³

Stabilization: 1,25% cement, 2,15% net bitumen, 3,583% emulsion

❖ Example of cement calculation.

❖ Cement (t) = volume x MDD/1000 x 1% stabilization

❖ = 300 x 2160kg/m³ / 1000 x 1,25% = 8,10 tons

Example of emulsion calculation.

❖ Emulsion (litres) = volume x MDD x 3,583% emulsion

❖ = 300 x 2160kg/m³ x 3,583% = 23 220 litres

Example of foam bitumen calculation.

❖ Bitumen (ton) = volume x MDD/1000 x 2,15% bitumen

❖ = 300 x 2160kg/m³/1000 x 1,2% = 13,932 tons

Discussion Chat

Calculate asphalt waste

Asphalt BRD 2350 kg/m³

Asphalt thickness:

Truck_JNR425MP

Thickness = tons/BRD/area

Thickness = 16.26ton/
2.35t/m³/92.34m² =
0.0749m

Calculate the asphalt waste
and type in the chat.

- ❖ Use the average thickness for the day

Contract No: C1090.01		Route / Street: TR11/1 (N7)				Contractor: RMSC		
Asphalt Supplier: National Asphalt		Paving Contractor: Roadmac Surfacing Cape				Asphalt Type:		
Carriageway	SB	SB	SB	SB	SB	SB	SB	SB
Lane	SL	SL	SL	SL	SL	SL	SL	SL
Truck No.	FLD766MP	JRN425MP	JKD377MP	FLD766MP	JRN425MP	JKD377MP	FPW334	FLD766MP
Consignment No.	22999	23000	23001	23002	23003	23004	23005	23006
Truck Load (Ton)	17.14	16.26	16.04	14.88	14.5	16.16	16.78	13.46
Cumulative Tonnage	17.14	33.4	49.44	64.32	78.82	94.98	111.76	125.22
Arrived at Site (Time)	00:00	00:00	00:10	01:12	01:12	01:20	01:56	02:48
Load Temp. In Truck	164	168	156	168	166	150	162	162
Placing Time	Start	00:05	00:12	00:20	01:15	01:20	01:31	02:02
	End	00:10	00:17	00:25	01:20	01:26	01:39	02:12
Section Placed	Start (SV)	7772.2	7746.7	7722.4	7698.7	7672.2	7647.2	7624.2
	End (SV)	7746.7	7722.4	7698.7	7672.2	7647.2	7624.2	7594
	Length (m)	25.5	24.3	23.7	26.5	25	23	30.2
	Cum. L (m)	25.5	49.8	73.5	100	125	148	178.2
	Width (m)	3.8	3.8	3.8	3.8	3.8	2	3.62
	Area (m ²)	96.9	92.34	90.06	100.7	95	87.4	60.4
	Thick (mm)	75	75	76	63	65	79	77
	Tons						9.23	
Temperature	Truck	164	168	156	168	166	164	162
	Hopper	150	158	148	148	132	150	156
	Layer							
Last truck waste								