

## A.1 Contoh perhitungan tebal pelat beton semen

### A.1.1 Diketahui data parameter perencanaan sebagai berikut:

Data :

CBR tanah dasar	=	4%		
Kuat tarik lentur ( $f_d$ )	=	4	MPa	( $f_c = 285$ kg/cm <sup>2</sup> , sili
Bahan pondasi bawah	=	stabilisasi		
Mutu baja tulangan	:	- BJTU 39		
		tegangan leleh ( $f_y$ )	=	3900 kg/c
		- BJTU 24		
		tegangan leleh ( $f_y$ )	=	2400 kg/c

Koefisien gesek antara pelat beton dengan pondasi ( $\mu$ ) = 1.3

bahu jalan = Ya (beton)

Ruji (dowel) = Ya

Data lalu lintas harian rata-rata :

- mobil penumpang	=	1640	buah/hari
- bus	=	300	buah/hari
- truk 2as kecil	=	650	buah/hari
- truk 2as besar	=	780	buah/hari
- truk 3as	=	300	buah/hari
- truk gandengan	=	10	buah/hari
- Pertumbuhan lalu lintas (i)	=	5%	per tahun
- Umur rencana (UR)	=	20	tahun

Direncanakan Perkerasan beton semen untuk jalan 2 lajur 1 arah untuk

Perencanaan meliputi :

- Perkerasan beton bersambung tanpa tulangan (BBTT)
- Perkerasan beton bersambung dengan tulangan (BBDT)
- Perkerasan beton menerus dengan tulangan (BMDT)

### A.1.1 Langkah langkah perhitungan tebal pelat

#### a) Analisis lalu-lintas

Tabel 13. Perhitungan jumlah sumbu berdasar

Jenis Kendaraan	Konfigurasi beban sumbu (ton)				Jml. Kend	Jml. Sumbu per kend.	Jml. Sumbu
	RD	RB	RGD	RGB	(bh)	(bh)	(bh)
(1)			(2)		(3)	(4)	(5)
MP	1	1	-	-	1640	-	-
Bus	3	5	-	-	300	2	600
Truk 2as kcl	2	4	-	-	650	2	1300
Truk 2as bsr	5	8	-	-	780	2	1560
Truk 3as	6	14	-	-	300	2	600
Truk gandg	6	14	5	5	10	4	40

# Perencanaan Perkerasan Kaku

**G Orfield**



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