MN/DOT SPEC 2360

Example Designation:

Gyratory
"SPWEB540L"

Mixture Designations Placeholders (1 through 9)

1st and 2nd are letters indicating mixture design type
SP = SuperPave = Gyratory design/compactor

3rd and 4th are letters indicating the course:
WE = wear & shoulder wear (top 4" on Mn/DOT projects, top 3" on local projects)
NW = non-wearing (below 4" on Mn/DOT projects, below 3" on local projects)

5th is a letter indicating maximum aggregate size:

Maximum Aggregate Size	2360 Gyratory	Sieve Size (mm)
- ½"	A	SP 9.5
- 3/4"	B	SP 12.5
- 1"	C	SP 19.0
- 3/8"	D	SP 4.75

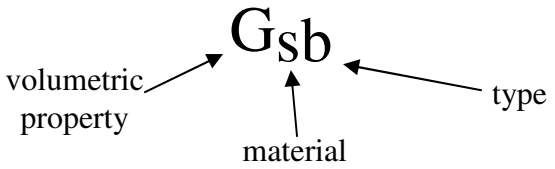
6th is a digit = Traffic Level
Equivalent Single Axle Loads = ESALs
2 = low (<1 Mill. ESALs or AADT < 2,300)
3 = medium (<3 Mill. ESALs or AADT < 6,000)
4 = high (<10 Mill. ESALs)
5 = higher (>10 Mill. ESALs) [Note: Stone Matrix Asphalt is also available]

7th and 8th are digits = air void requirement
40 = 4.0%
35 = 3.5% for Non-Wear
30 = 3.0% for Non-Wear Shoulder

9th is a letter = asphalt cement (PG binder type)

Common Types	Specialty Grades
A = PG 52 – 34	F = PG 64 – 34
B = PG 58 – 28	H = PG 70 – 28
C = PG 58 – 34	I = PG 70 – 34
E = PG 64 – 28	M = PG 49 – 34
L = PG 64 – 22	

VOLUMETRICS NAMING CONVENTION



		b = bulk
	s = stone	e = effective
G = specific gravity	b = binder	m = max theoretical
V = volume	m = mix	a = apparent (for G), *or*
P = percent	a = air	= absorbed (for V or P)

CURRENT MN/DOT 2350/2360

Maximum Mix Density (Rice) = G_{mm} --- No Air

Mix Bulk (as is, with air) = G_{mb} --- of core

$$\% \text{ Max Density} = \frac{\text{Core Density (air)}}{\text{Rice (no air)}} = \frac{G_{mb}}{G_{mm}} \times 100$$

(Typical % Max Density = 92% & 93%, In-Place Voids = 8 to 7%)