

Superstructure Depth Requirements - English

SUPERSTRUCTURE DEPTH REQUIREMENTS			
CONTINUOUS SOLID SLAB		CONTINUOUS VOIDED SLAB	
INTERIOR SPAN	DEPTH	INTERIOR SPAN	DEPTH
Up to 25'	14"	50' to 60'	28"
26' to 35'	18"	61' to 70'	32"
36' to 40'	20"		
41' to 45'	23"		

CONTINUOUS PRESTRESSED CONCRETE			
DOUBLE-TEE		I-GIRDER	
INTERIOR SPAN	DEPTH	INTERIOR SPAN	DEPTH
20' to 25'	25"	Up to 50'	3.75'
26' to 35'	31"	51' to 60'	4.25'
36' to 50'	39"	61' to 70'	4.75'
		71' to 85'	5.5'
		86' to 99'	7.0'

CONTINUOUS COMPOSITE STEEL			
WIDE FLANGE		PLATE GIRDER	
INTERIOR SPAN	DEPTH	INTERIOR SPAN	DEPTH
Up to 50'	3.0'	85' to 104'	4.5'
51' to 60'	3.25'	105' to 124'	5.0'
61' to 70'	3.5'	125' to 134'	5.5'
		135' to 144'	6.0'
		145' to 159'	6.5'
		160' to 174'	7.0'
		175' to 184'	7.5'
		185' to 194'	8.0'
		195' to 204'	8.5'
		Over 204'	*
*To be determined by GHQ Bridge			

- NOTES:
- Depth includes slab & haunch.
 - Crown and superelevation must be added to the depths listed.
 - All superstructure depths are approximate.
 - Span lengths for plate girders are based on a three span structure. If a two span structure is desired, add 6 in. to the structure depth.
 - An additional 2" of structure depth is necessary when using prestressed concrete girders on a sag vertical curve.

Superstructure Depth Requirements - Metric

SUPERSTRUCTURE DEPTH REQUIREMENTS			
CONTINUOUS SOLID SLAB		CONTINUOUS VOIDED SLAB	
INTERIOR SPAN	DEPTH	INTERIOR SPAN	DEPTH
Up to 7.5 m	355 mm	15.0 m to 18.0 m	710 mm
8.0 m to 10.5 m	460 mm	18.5 m to 21.0 m	815 mm
11.0 m to 12.0 m	510 mm		
12.5 m to 13.5 m	585 mm		

CONTINUOUS PRESTRESSED CONCRETE			
DOUBLE-TEE		I-GIRDER	
INTERIOR SPAN	DEPTH	INTERIOR SPAN	DEPTH
6.0 m to 7.5 m	650 mm	Up to 15.0 m	1150 mm
8.0 m to 10.5 m	805 mm	15.5 m to 18.0 m	1295 mm
11.0 m to 15.0 m	1010 mm	18.5 m to 21.0 m	1450 mm
		21.5 m to 26.0 m	1680 mm
		26.5 m to 30.0 m	2135 mm

CONTINUOUS COMPOSITE STEEL			
WIDE FLANGE		PLATE GIRDER	
INTERIOR SPAN	DEPTH	INTERIOR SPAN	DEPTH
Up to 15.0 m	930 mm	26.0 m to 31.5 m	1400 mm
15.5 m to 18.0 m	1010 mm	32.0 m to 37.5 m	1550 mm
18.5 m to 21.0 m	1080 mm	38.0 m to 40.5 m	1700 mm
		41.0 m to 43.5 m	1850 mm
		44.0 m to 48.5 m	2000 mm
		49.0 m to 53.0 m	2150 mm
		53.5 m to 56.0 m	2300 mm
		56.5 m to 59.0 m	2450 mm
		59.5 m to 62.0 m	2600 mm
		Over 62.5.0 m	*
		* to be determined by GHQ Bridge	

- NOTES:
- Depth includes slab & haunch.
 - Crown and superelevation must be added to the depths listed.
 - All superstructure depths are approximate.
 - Span lengths for plate girders are based on a three span structure. If a two span structure is desired, add 150 mm to the structure depth.
 - An additional 50 mm of structure depth is necessary when using prestressed concrete girders on a sag vertical curve.