

### WF100G Span Capability with Future Overlay

f'ci = 8.0 ksi, f'c = 10.0 ksi Strand Diameter = 0.6" Grade 270 ksi low relaxation							
Girder Type	Girder Spacing (ft)	Span Length (ft)	Straight Strands	Harped Strands	Top Temp. Strands	"A" Dim. (in)	Deck Thickness (in)
WF100G	5	220	46	25	10	9.00	7.5
	6	215	46	26	10	9.00	7.5
	7	205	46	25	8	9.75	7.5
	8	200	46	27	10	10.00	7.5
	9	195	46	27	10	10.00	7.5
	10	185	46	25	8	10.50	7.5
	11	180	46	25	8	10.50	7.5
	12	170	46	23	8	11.25	8.0

#### Design Parameters

- PGSuper Ver. 2.0.7
- Simple span girder lengths are CL bearing to CL bearing
- Spans reported in 5 ft. increments
- Slab f'c = 4.0 ksi
- Under normal exposure condition and 75% relative humidity
- 80,000 kip-in/rad truck roll stiffness
- No vertical or horizontal curve
- 2% roadway crown slope
- Standard WSDOT "F" shaper barrier
- 6% roadway superelevation for shipping check
- 2" future HMA overlay with density of 140 pcf
- 0.65\*f'c allowable during fabrication

### WF100G Span Capability without Future Overlay

f'ci = 8.0 ksi, f'c = 10.0 ksi Strand Diameter = 0.6" Grade 270 ksi low relaxation							
Girder Type	Girder Spacing (ft)	Span Length (ft)	Straight Strands	Harped Strands	Top Temp. Strands	"A" Dim. (in)	Deck Thickness (in)
WF100G	5	225	46	23	10	8.75	7.5
	6	220	46	25	10	8.75	7.5
	7	210	46	23	10	9.00	7.5
	8	205	46	25	10	9.25	7.5
	9	200	46	26	10	9.50	7.5
	10	195	46	27	10	9.75	7.5
	11	190	46	28	10	10.00	7.5
	12	185	46	28	10	10.50	8.0

#### Design Parameters

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- Simple span girder lengths are CL bearing to CL bearing
- Spans reported in 5 ft. increments
- Slab f'c = 4.0 ksi
- Under normal exposure condition and 75% relative humidity
- 80,000 kip-in/rad truck roll stiffness
- No vertical or horizontal curve
- 2% roadway crown slope
- Standard WSDOT "F" shaper barrier
- 6% roadway superelevation for shipping check
- 0.65\*f'c allowable during fabrication