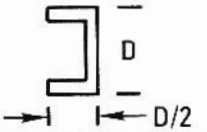
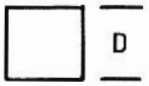
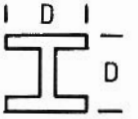
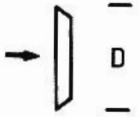
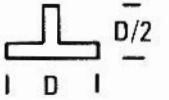
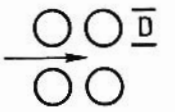
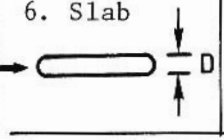
Table 10-16. Strouhal Numbers for Various Sections.

Notation: D = characteristic width; Re = UD/ν, Reynolds number; S = fD/U, Strouhal number where f is vortex shedding frequency in hertz and U is free stream velocity. Refs. 10-142 and 10-148. Also see Fig. 10-24. Reynolds number is 10^4 to 10^5 unless otherwise noted. → denotes direction of free stream. Uncertainty is ± 10%.

Section	Strouhal Number, S	Section	Strouhal Number, S
1. Circle 	Re: <30 | 50 | 500 | 10^3 S: 0 | 0.13 | 0.20 | 0.21 Re: 10^4 | 10^5 | 10^6 | 10^7 S: 0.20 | 0.19 | 0.21 | 0.23	7. Right Angle 	→0.13 ←0.24 ↑0.13
2. D Section 	→0.16 ←0.21 ↑0.21	8. Channel 	→0.14 ←0.13
3. Square 	→0.12 ↑0.16	9. I Beam 	→0.14 ↑0.12
4. Thin Plate 	Re: 40 | 200 | 10^3 | 10^4 | 10^5 S: 0.13 | 0.17 | 0.15 | 0.14 | 0.13	10. T Beam 	→0.14 ↑0.14
5. Isosceles Triangle 	→0.15 ←0.19	11. Tube Array 	0.2 < S < 0.5 for U equal to velocity in gap between tubes. See Ref. 10-140.
6. Slab 	→0.20 (trailing edge is bluff)		