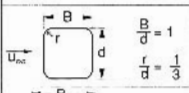

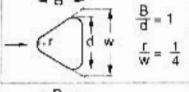

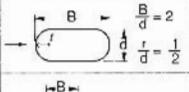
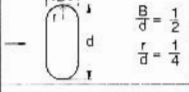
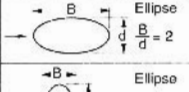
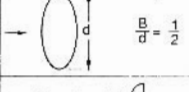

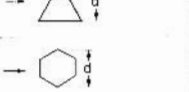
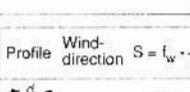


a)

Shape of cross-section	Strouhal number $S = \frac{f_w \cdot d}{u_{\infty}}$	Valid range of Reynold's number
 $\frac{B}{d} = 1$ $\frac{r}{d} = \frac{1}{3}$	0.33	$2 \times 10^6 > Re > 4 \times 10^5$
 $\frac{B}{d} = 1$ $\frac{r}{w} = \frac{1}{3}$	$0.2 \rightarrow 0.35$ 0.35	$7 \times 10^5 > Re > 4 \times 10^5$ $2 \times 10^6 > Re > 7 \times 10^5$
 $\frac{B}{d} = 1$ $\frac{r}{w} = \frac{1}{4}$	0.2 0.3	$8 \times 10^5 > Re > 3 \times 10^5$ $Re > 3 \times 10^5$
 $\frac{B}{d} = 1$ $\frac{r}{w} = \frac{1}{4}$	0.2 0.65	$5 \times 10^5 > Re > 3 \times 10^5$ $1.6 \times 10^6 > Re > 6 \times 10^5$
 $\frac{B}{d} = 2$ $\frac{r}{d} = \frac{1}{2}$	0.4	$2.5 \times 10^6 > Re > 3 \times 10^5$
 $\frac{B}{d} = \frac{1}{2}$ $\frac{r}{d} = \frac{1}{4}$	$0.2 \rightarrow 0.35$ 0.35	$6 \times 10^5 > Re > 2 \times 10^5$ $1 \times 10^6 > Re > 6 \times 10^5$
 Ellipse $\frac{B}{d} = 2$	0.12 0.60	$5 \times 10^5 > Re > 3 \times 10^5$ $2 \times 10^6 > Re > 1 \times 10^6$
 Ellipse $\frac{B}{d} = \frac{1}{2}$	0.2	$7 \times 10^5 > Re > 1 \times 10^5$
 $\frac{d}{d} = 1$	0.22 0.125	$Re > 8 \times 10^4$ $Re > 5 \times 10^4$
 $\frac{B}{d} = 1$	$0.13 \rightarrow 0.22$	$Re \approx 0.3 \div 1.4 \times 10^5$
 $\frac{B}{d} = 1$	$0.14 \rightarrow 0.22$	$Re > 0.8 \times 10^5$

b)

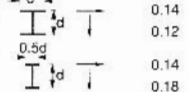
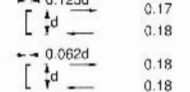
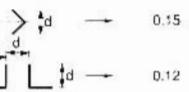
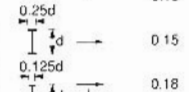
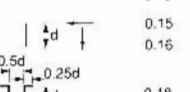
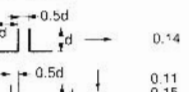
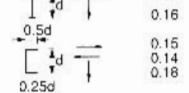
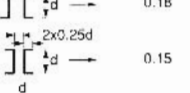

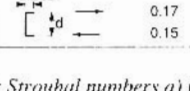
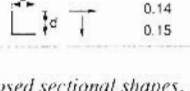
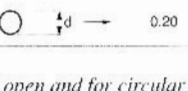
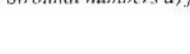
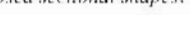
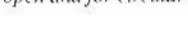
Profile	Wind-direction	$S = \frac{f_w \cdot d}{u_{\infty}}$	Profile	Wind-direction	$S = \frac{f_w \cdot d}{u_{\infty}}$	Profile	Wind-direction	$S = \frac{f_w \cdot d}{u_{\infty}}$
		0.14 0.12			0.17 0.18			0.15
		0.14 0.18			0.18 0.18			0.12
		0.15			0.15 0.16			0.14
		0.18 0.16			0.18 0.15			0.11 0.15
		0.15 0.18			0.15 0.14			0.16
		0.17 0.15			0.14 0.15			0.20

Table H.2: Strouhal numbers a) for closed sectional shapes, b) for open and for circular sectional shapes [H.6]