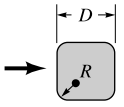
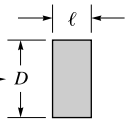
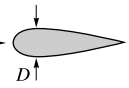
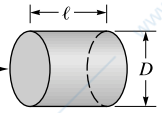
Shape	Reference area A (b = length)	Drag coefficient $C_D = \dfrac{\mathscr{D}}{\frac{1}{2}\rho U^2 A}$
 Square rod with rounded corners	$A = bD$	R/D / C_D: 0 / 2.2; 0.02 / 2.0; 0.17 / 1.2; 0.33 / 1.0
 Semicircular shell	$A = bD$	→ 2.3; ← 1.1
 Rectangle	$A = bD$	ℓ/D / C_D: ≤0.1 / 1.9; 0.5 / 2.5; 0.65 / 2.9; 1.0 / 2.2; 2.0 / 1.6; 3.0 / 1.3
 Streamlined strut	$A = bD$	0.12
 Cube	$A = D^2$	1.05
 Hollow hemisphere	$A = \frac{\pi}{4}D^2$	→ 1.42; ← 0.38
 Circular rod parallel to flow	$A = \frac{\pi}{4}D^2$	ℓ/D / C_D: 0.5 / 1.1; 1.0 / 0.93; 2.0 / 0.83; 4.0 / 0.85

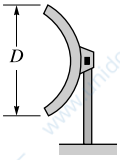
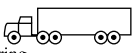
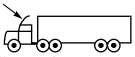
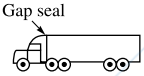
Shape	Reference area	Drag coefficient C_D
 Parachute	Frontal area $A = \frac{\pi}{4}D^2$	1.4
 Porous parabolic dish	Frontal area $A = \frac{\pi}{4}D^2$	Porosity / 0 / 0.2 / 0.5; → 1.42 / 1.20 / 0.82; ← 0.95 / 0.90 / 0.80; Porosity = open area/total area
 Average person	Standing Sitting Crouching	$C_DA = 9$ ft^2 $C_DA = 6$ ft^2 $C_DA = 2.5$ ft^2
Bikes		
 Upright commuter	$A = 5.5$ ft^2	1.1
 Racing	$A = 3.9$ ft^2	0.88
 Drafting	$A = 3.9$ ft^2	0.50
 Streamlined	$A = 5.0$ ft^2	0.12
Tractor-trailor trucks		
 Standard	Frontal area	0.96
Fairing  With fairing	Frontal area	0.76
Gap seal  With fairing and gap seal	Frontal area	0.70
 Tree	Frontal area	U = 10 m/s: 0.43 U = 20 m/s: 0.26 U = 30 m/s: 0.20

Figure 14.18 Typical drag coefficients for objects of interest; $Re \geq 10^4$.