

HVAC Rectangular & Spiral Duct

Roll-formed ductwork for air distribution systems

Roll-formed ductwork in the two forms the trade buys: rectangular duct, formed from lock-forming or Pittsburgh-seam sheet, and spiral (round) duct, formed from a continuous strip on a spiral machine. Both are specified by the air system, then by the pressure class they have to hold.

Forms and sizes

Form	Typical range	Notes
Rectangular duct	100 × 100 mm up to about 2,000 × 1,000 mm	Seams: Pittsburgh lock, snap lock or standing seam
Spiral round duct	80 mm up to about 1,500 mm diameter	Lock-seamed strip; fittings made separately
Oval duct	Where headroom is tight	Rectangular-to-round compromise

Specified data

Material	Galvanised steel sheet, 0.5 – 1.2 mm typical for HVAC
Pressure class	Low, medium and high pressure classes decide the gauge, stiffening and seam type
Stiffening	Cross-brakes, tie rods or angle reinforcement by duct size and class
Joints & flanges	Slide-on flange, TDC, or angle flange systems
Leakage	Duct class sets the allowable leakage; sealing is part of the spec

Standards referenced

SMACNA HVAC Duct Construction Standards (North America) · EN 1505 and EN 1506 (rectangular and circular sheet metal air ducts — dimensions) · EN 12237 and EN 1507 (strength and leak tightness of circular and rectangular ductwork) · EN 10346 (coated steel sheet) · duct sealing classes per EN 12237 / EN 1507

Need a quote? Send the duct sizes and lengths, pressure class, gauge and joint system.

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