

# Self-Drilling Screw Size Chart

**Tip:** Set your PDF viewer to "Actual size" before printing to maintain scale.

Size	Diameter	Common Lengths	Point Types	Typical Uses
#6	0.138"	1/2", 3/4", 1"	Tek 1, 2	Light HVAC, thin panels
#8	0.164"	1/2", 3/4", 1", 1-1/4"	Tek 2	HVAC, light metal framing
#10	0.190"	3/4", 1", 1-1/2", 2"	Tek 2, 3	Metal studs, standard roofing
#12	0.216"	1", 1-1/2", 2", 3"	Tek 3, 4	Metal roofing, framing
#14	0.242"	1-1/2", 2", 2-1/2", 3"	Tek 3, 4	Heavy roofing, structural
1/4"	0.250"	1-1/2", 2", 3", 4"	Tek 4, 5	Structural steel, thick metal
5/16"	0.312"	2", 3", 4", 6"	Tek 5	Heavy structural, equipment
3/8"	0.375"	3", 4", 6"	Tek 5	Maximum duty applications

## Sizing Guidelines

- **Length selection:** Must penetrate all layers plus minimum 3/8" engagement in base material
- **Diameter selection:** Based on required strength and material thickness
- **HVAC standard:** #8 × 1/2" to 3/4" most common for ductwork connections
- **Roofing standard:** #12 × 1" to 2" typical for residential metal-to-wood
- **Commercial roofing:** #12 to #14 × 1-1/2" to 3" for thicker materials
- **Structural standard:** 1/4" and larger diameters for load-bearing connections
- **Minimum engagement:** At least 3 full threads must engage in base material
- **Quantity estimate:** Add 10-15% waste allowance for dropped/damaged screws

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