Nail Sizes Chart: Penny Size, Length and Gauge

Nail sizes chart: penny size, length and gauge, 2d to 60d

Penny size (written d) names a nail's length. Lengths are fixed; gauge and diameter run slightly differently from maker to maker, and the nails-per-pound counts below are shown as a range across the manufacturers we checked. A dash means the sources disagreed or only one published it, so we left it out.

Penny size	Length (in)	Length (mm)	Typical use	Common gauge	Common shank (in)	Common per lb	Box gauge	Box shank (in)	Box per lb	Finish gauge	Finish shank (in)	Finish per lb
2d	1	25.4	Small trim, light crafts	15	0.072	850–876	—	—	—	16.5	—	1351–1473
3d	1.25	31.8	Small trim, lath	14	—	540–568	14.5	0.076	635	15.5	—	807–880
4d	1.5	38.1	Light framing, small boards	12.5	—	285–316	14	0.080	473	15	0.072	584–630
5d	1.75	44.4	Light framing, sheathing	12.5	—	250–271	14	0.080	406	—	—	—
6d	2	50.8	Sheathing, subfloor edges	11.5	0.113	167–181	12.5	—	236	13	—	288–309
7d	2.25	57.1	Sheathing, siding	11.5	0.113	150–161	12.5	—	—	—	—	—
8d	2.5	63.5	Siding, sheathing, light framing	10.25	0.131	100–106	11.5	0.113	145	12.5 (S3,S7) or 12 (S6)	—	189–196
9d	2.75	69.8	Siding, sheathing	—	—	—	—	—	—	—	—	—
10d	3	76.2	Framing, decking, sheathing	9	0.148	66–69	10.5	0.128	94	11.5	—	121–124
12d	3.25	82.5	Framing, heavy sheathing	9	0.148	61–64	—	—	—	—	—	—

Penny size	Length (in)	Length (mm)	Typical use	Common gauge	Common shank (in)	Common per lb	Box gauge	Box shank (in)	Box per lb	Finish gauge	Finish shank (in)	Finish per lb
16d	3.5	88.9	Framing lumber, the standard framing nail	8	0.162	47–49	10	0.135	—	11	—	87–93
20d	4	101.6	Heavy framing, timber	6	0.192	29–31	9	0.148	52–62	10	—	62–65
30d	4.5	114.3	Heavy timber, spikes	5	0.207	23–24	—	—	—	—	—	—
40d	5	127.0	Heavy timber, spikes	4	0.225	18	—	—	—	—	—	—
50d	5.5	139.7	Heavy timber, spikes	3	0.244	13–14	—	—	—	—	—	—
60d	6	152.4	Heavy timber, spikes	2	0.262	11	—	—	—	—	—	—

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