

# NAIL PENETRATION

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Penny Size	Nail Length
2d	1
3d	1 1/4
4d	1 1/2
5d	1 3/4
6d	2
7d	2 1/4
8d	2 1/2
9d	2 3/4
10d	3
12d	3 1/4
16d	3 1/2
20d	4
30d	4 1/2
40d	5
50d	5 1/2
60d	6

Nominal	Actual	
	Dry	Green
3/8	5/16	11/32
1/2	7/16	15/32
5/8	9/16	19/32
3/4	5/8	11/16
1	3/4	25/32
1 1/4	1	1 1/32
1 1/2	1 1/4	1 9/32
2	1 1/2	1 9/16
2 1/2	2	2 1/16
3	2 1/2	2 9/16
3 1/2	3	3 1/16
4	3 1/2	3 9/16
4 1/2	4	4 1/16

# SCREW HOLES

Screw Gauge	Screw Diameter
24	$\frac{3}{8}$
20	$\frac{21}{64}$
18	$\frac{19}{64}$
16	$\frac{17}{64}$
14	$\frac{1}{4}$
12	$\frac{7}{32}$
11	$\frac{13}{64}$
10	$\frac{3}{16}$
9	$\frac{11}{64}$
8	$\frac{11}{64}$
7	$\frac{5}{32}$
6	$\frac{9}{64}$
5	$\frac{1}{8}$
4	$\frac{7}{64}$
3	$\frac{3}{32}$
2	$\frac{3}{32}$
1	$\frac{5}{64}$
0	$\frac{1}{16}$

Hole Diameter	Drill Bit
$\frac{1}{64}$	78
$\frac{1}{32}$	67
$\frac{3}{64}$	55
$\frac{1}{16}$	52
$\frac{5}{64}$	47
$\frac{3}{32}$	41
$\frac{7}{64}$	35
$\frac{1}{8}$	30
$\frac{9}{64}$	27
$\frac{5}{32}$	22
$\frac{11}{64}$	17
$\frac{3}{16}$	12
$\frac{13}{64}$	6
$\frac{7}{32}$	2
$\frac{15}{64}$	B
$\frac{1}{4}$	E
$\frac{17}{64}$	H
$\frac{9}{32}$	L
$\frac{19}{64}$	N
$\frac{5}{16}$	O
$\frac{21}{64}$	Q
$\frac{11}{32}$	S
$\frac{23}{64}$	U
$\frac{3}{8}$	V
$\frac{25}{64}$	X
$\frac{13}{32}$	Z

Countersink Hole            Add  $\frac{1}{8}$   
 Clearance Hole              Do nothing  
 Pilot Hole                      Takeaway  $\frac{1}{16}$

<https://templatelab.com/tap-drill-chart/>