

# Carpentry

FASTENER APPLICATIONS		
Nails — Common Applications		
Joining	Size & Type	Placement
<b>Wall Framing</b>		
Top plate	8d common 16d common	
Header	8d common 16d common	
Header to joist	16d common	
Studs	8d common 16d common	
<b>Wall Sheathing</b>		
Boards	8d common	6" o.c.
Plywood ( $\frac{5}{16}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ ")	6d common	6" o.c.
Plywood ( $\frac{5}{8}$ ", $\frac{3}{4}$ ")	8d common	6" o.c.
Fiberboard	1 $\frac{3}{4}$ " galv roofing nail 8d galv common nail	6" o.c. 6" o.c.
Foamboard	Cap nail length sufficient for penetration of $\frac{1}{2}$ " into framing	12" o.c.
Gypsum	1 $\frac{3}{4}$ " galv roofing nail 8d galv common nail	6" o.c. 6" o.c.
<b>Subflooring</b>	8d common	10"-12" o.c.
<b>Underlayment</b>	1 $\frac{1}{4}$ " x 14 ga annular underlayment nail	6" o.c. edges 12" o.c. face
<b>Roof Framing</b>		
Rafters, beveled or notched	12d common	
Rafter to joist	16d common	
Joist to rafter and stud	10d common	
Ridge beam	8d & 16d common	
<b>Roof Sheathing</b>		
Boards	8d common	
Plywood ( $\frac{5}{16}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ ")	6d common	12" o.c. and 6" o.c. edges
Plywood ( $\frac{5}{8}$ ", $\frac{3}{4}$ ")	8d common	12" o.c. and 6" o.c. edges

## FASTENER APPLICATIONS *(cont.)*

<b>Joining</b>	<b>Size &amp; Type</b>	<b>Placement</b>
<b>Roofing, Asphalt</b>		
New construction shingles and felt	$\frac{7}{8}$ " through 1 $\frac{1}{2}$ " galv roofing	4 per shingle
Re-roofing application shingles and felt	1 $\frac{3}{4}$ " or 2" galv roofing	4 per shingle
Roof deck/insulation	Thickness of insulation plus 1" insulation roof deck nail	
<b>Roofing, Wood Shingles</b>		
New construction	3d-4d galv shingle	2-3 per shingle
Re-roofing application	5d-6d galv shingle	2-3 per shingle
<b>Soffit</b>	6d-8d galv common	12" o.c. max.
<b>Siding</b>		
Bevel and lap Drop and shiplap Plywood	Aluminum nails are recommended for optimum performance	Consult siding manufacturer's application instructions
Hardboard	Galvanized hardboard siding nail Galvanized box nail	Consult siding manufacturer's application instructions
<b>Doors, Windows, Moldings, Furring</b>		
Wood strip to masonry  Wood strip to stud or joist	Nail length is determined by thickness of siding and sheathing. Nails should penetrate at least 1 $\frac{1}{2}$ " into solid wood framing	
<b>Paneling</b>		
Wood	4d-8d casing-finishing	24" o.c.
Hardboard	2" x 16 ga annular	8" o.c.
Plywood	3d casing-finishing	8" o.c.
Gypsum	1 $\frac{1}{4}$ " annular drywall	6" o.c.
<b>Lathing</b>	4d common glued	4" o.c.
<b>Exterior Projects</b>		
Decks, patios, etc.	8d-16d hot dipped galvanized common	