

WBAC Wood Backing Steel Connector

The WBAC wood backing steel connector is the ideal solution for connecting wood backing to cold-formed steel studs. Perfect for cabinets, shelves, handrails, heavy wall hangings and more, this versatile connector installs easily and provides tested strength. The WBAC is designed to eliminate alignment issues and reduce installation time. Since stiffness and strength are critical for these applications, the fastening pattern into both steel and wood has been engineered to optimize performance.

Features:

- Simple installation using prepunched holes allowing the same screw to be used for both wood backing and stud attachment
- Not limited to just a 1½" flange, the WBAC has been tested to accommodate 1¼" flanges, 1⅝" flanges and 2" flanges
- Works for any stud spacing, predetermined or typical stud spacing not required
- Sight lines to guide installation alignment
- Unique rolled support bottom tabs provide extra strength and stiffness

Materials: WBAC162 33 mil (20 ga.), 33 ksi;
WBAC200 33 mil (20 ga.), 33 ksi

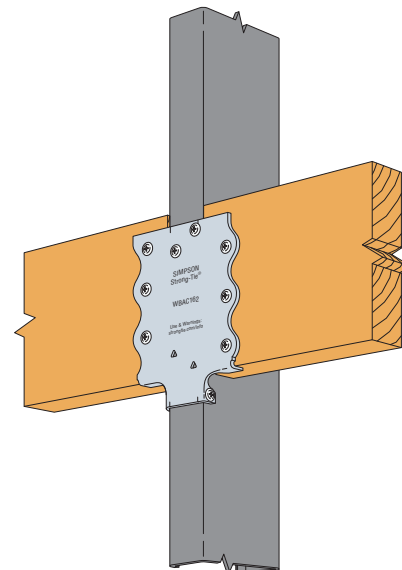
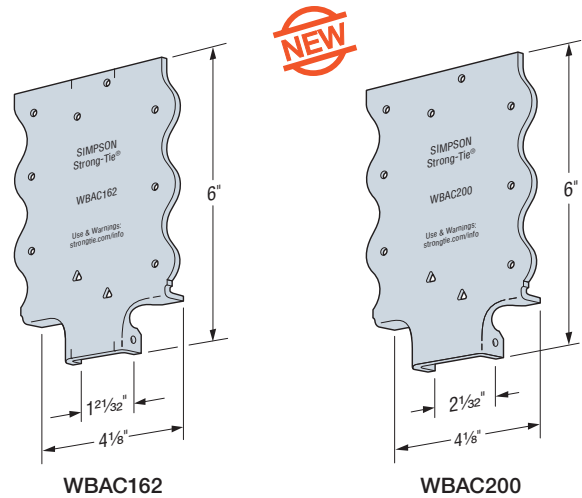
Finish: Galvanized (G90)

Installation:

- Attach to grade lumber or ⅝" fire-rated board
- Use WBAC162 for 1¼" and 1⅝" flanges, and WBAC200 for 2" flanges
- Drywall stud (1¼" flange) — Align top of connector with markings and attach using (4) #8–18 modified truss-head self-drilling screws to stud flange and (3) #8–18 modified truss-head screws to each wood block
- Structural studs (1⅝" and 2" flange) — Attach using (4) #8–18 modified truss-head SDS screws [(2) to stud flange, (1) to lip, and (1) to web] and (3) #8–18 modified truss-head screws to each wood block

Codes: Testing performed in accordance with ICC-ES AC261

Ordering Information: WBAC162-R50, WBAC200-R50

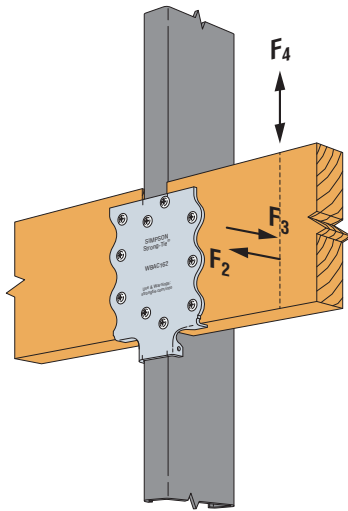


Typical WBAC162 Installation
(WBAC200 similar)

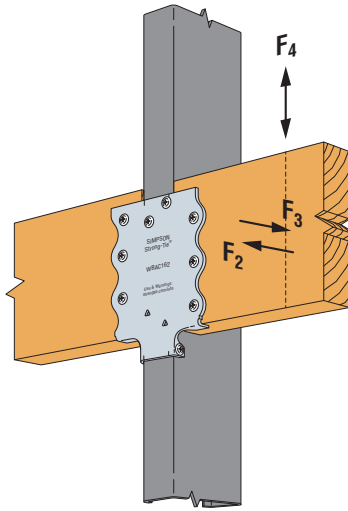
Fastener Patterns

WBAC162 Installation to 1¼" Flange	WBAC162 Installation to 1⅝" Flange	WBAC200 Installation to 2" Flange

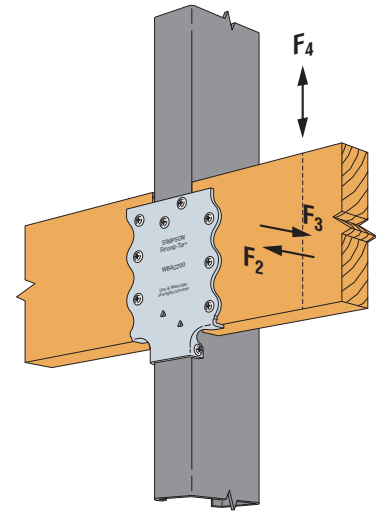
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WBAC162 Installation to 1 1/4" Flange



WBAC162 Installation to 1 5/8" Flange

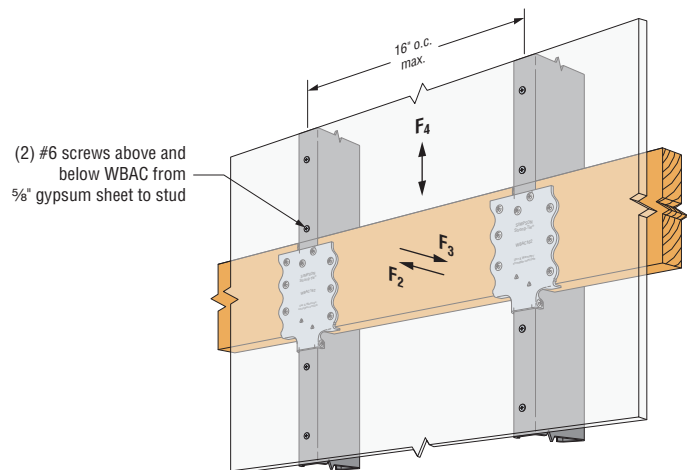


WBAC200 Installation to 2" Flange

Allowable Loads on Blocking Supported by WBAC (lb.)

Model No.	Stud Thickness mil. (ga.)	Stud Steel Strength, F_y (ksi)	Fasteners		Allowable Load (lb.)			
			Stud	Wood Blocking	F_2 @ 1/8" Deflection	F_2 @ Strength	F_4 @ 0" Offset	F_4 @ 3" Offset
Stud Flange = 1 1/4"								
WBAC162	15 (25 EQ)	50	(4) #8	(3) #8	95	135	275	60
	18 (25)	33			90	160	175	40
	19 (20 EQ)	57			95	135	275	60
	30 (20 DW)	33			150	265	285	65
	33 (20 Struct)	33			220	295	320	75
Stud Flange = 1 5/8"								
WBAC162	33 (20 Struct)	33	(4) #8	(3) #8	220	295	320	75
	43 (18)	33			260	355	355	85
	54 (16)	50			275	405	395	95
Stud Flange = 2"								
WBAC200	33 (20 Struct)	33	(4) #8	(3) #8	220	295	320	75
	43 (18)	33			260	355	355	85
	54 (16)	50			275	405	395	95

1. Allowable loads may not be increased for wind or seismic load.
2. Allowable loads are the lower of tested ultimate load with a safety factor, load at 1/8" deflection (u.o.n.), or fastener calculation limits in accordance with ICC-ES AC261.
3. Fasteners to stud and wood blocking are #8–18 (3/4" min. long) modified truss-head screws.
4. Wood blocking may be any species of solid sawn or engineered lumber with a minimum specific gravity of 0.42.
5. Listed capacities do not consider the resistance of the gypsum board. The WBAC connector installed with 5/8" gypsum may be increased by a factor of 1.15, 1.15, and 1.35 for F_2 @ 1/8" deflection, F_4 @ 0" offset, and F_4 @ 3" offset, respectively.
6. F_3 is limited to an allowable capacity of 175 lb. with (3) #8–18 (3/4" long) modified truss screws to each wood block or 260 lb. with (3) #8–18 (1" long). F_3 tests do not consider resistance of gypsum board.
7. F_4 may be interpolated between offset 0" and 3".
8. F_2 , F_3 and F_4 loads assumed to act at 1/4 point of wood blocking.
9. For combined loading, use (F_2 @ Strength) and a linear interaction.



WBAC162 Installation to 1 5/8" Stud Flange with Gypsum
(see table footnote 5 for addition of gypsum board)