

RBC/RBCP™

Roof Boundary Clip

The RBC roof boundary clip is designed to aid installation and transfer shear loads between the roof diaphragm and wall. The locator tabs make proper location of the clip easy. The RBC can be used on wood or masonry walls and will handle roof pitches from 0/12 to 12/12. The RBC is available with prongs into one side (RBCP) for pre-attachment of the part to a block at the truss plant.

Material: 20 gauge

Finish: Galvanized

Installation:

- Use all specified fasteners; see General Notes
- Field bend to desired angle — one time only
- RBCP should be pressed on to blocking, not hammered

Codes: See p. 13 for Code Reference Key Chart

The RBC installed to blocking resists rotation and lateral displacement of rafter or truss.

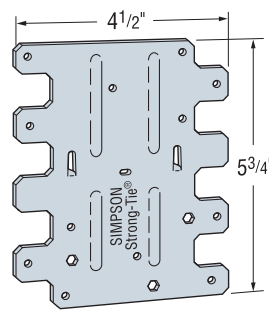
Code references:

- IRC® 2012/2015/2018/2021, R802.8 Lateral Support
- IBC® 2012, 2308.10.6; 2015/2018/2021, 2308.7.8 Blocking

Blocking allows proper edge nailing of sheathing.

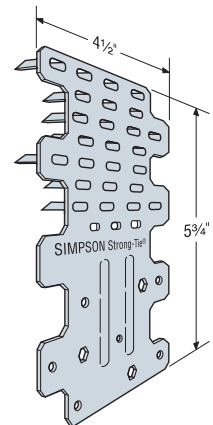
Code references:

- IRC 2012, Table R602.3(1), footnote i, 2015/2018/2021, Table R602.3(1), footnote h
- IBC 2012/2015/2018/2021, 2305.1 Shear Panel Connections



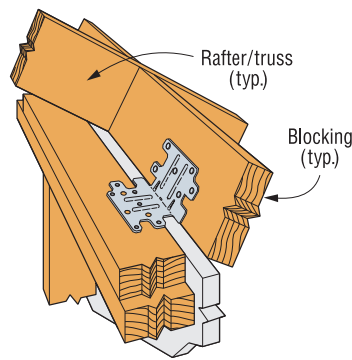
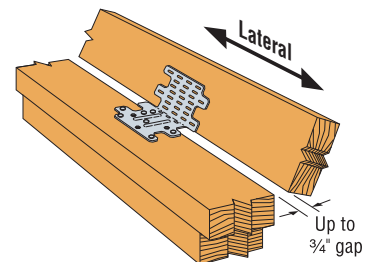
RBC

US Patent 7,293,390



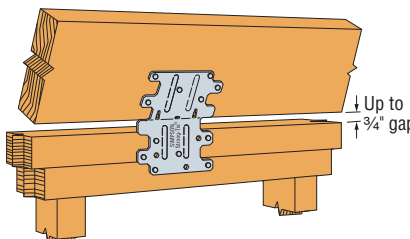
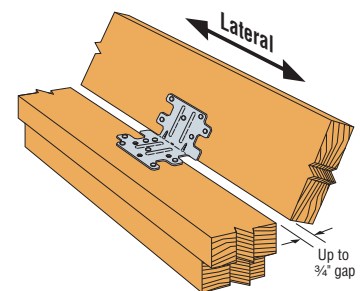
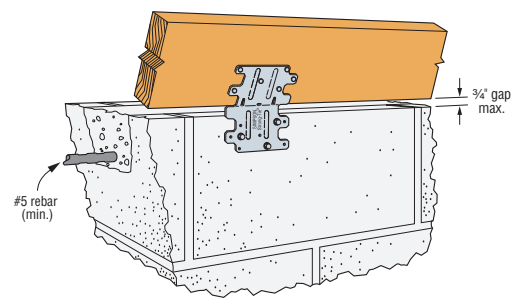
RBCP - Flat

US Patent 7,293,390

Typical RBC Installation
Over 1" Foam Board⁵Typical RBCP
Installation

Model No.	Type of Connection	Bending Angle	Fasteners (in.)		DF/SP Allowable Loads	SPF/HF Allowable Loads	Code Ref.
			To Wall	To Blocking	Lateral (160)	Lateral (160)	
RBC RBCP	1	45° to 90°	(6) 0.148 x 1 1/2	(6) 0.148 x 1 1/2	445	380	IBC, FL, LA
	2	< 30°	(6) 0.148 x 1 1/2	(6) 0.148 x 1 1/2	435	375	
		30° to 45°	(6) 0.148 x 1 1/2	(6) 0.148 x 1 1/2	465	400	
	3	0° to 45°	(3) 1/4 x 2 1/4 Titen Turbo™ ⁴	(6) 0.148 x 1 1/2	350	350	—

1. See pp. 276–277 for Straps and Ties General Notes.
2. Allowable loads are for one anchor attached to blocking a minimum of 1 1/2" thick.
3. RBC/RBCP can be installed with up to a 3/4" gap and achieve 100% of the listed load.
4. When attaching to concrete, use three 1/4" x 1 3/4" TNT25134H Titen Turbo™ screw anchors.
5. RBC/RBCP installed over 1" foam board has a load of 395 lb. (160) in a parallel-to-wall (F1) load direction for Douglas fir. For SPF, the load is 340 lb.
6. RBC/RBCP may be installed over 1/2" structural sheathing using 0.148" x 1 1/2" nails with no load reduction.
7. **Fasteners:** Nail dimensions are diameter by length. Titen Turbo screws are Simpson Strong-Tie concrete and masonry screws. See pp. 23–24 for fastener information.

2 Typical RBC Installation
(RBCP similar)1 Typical RBC Installation
(RBCP similar)3 Typical RBC Installation
to GFCMU Block
(RBCP similar)