

**RBC** 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.

**MATERIAL:** 20 gauge **FINISH:** Galvanized

**INSTALLATION:** • Use all specified fasteners. See General Notes.

- Field bend to desired angle – one time only.
- See flier F-RBC for more information on installation and code requirements (see page 191 for details).

**CODES:** See page 12 for Code Reference Key Chart.

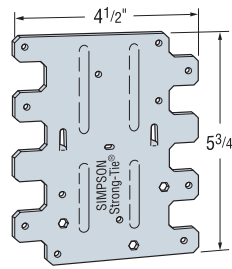
The RBC installed to blocking resists rotation and lateral displacement of rafter or truss.

Code references:

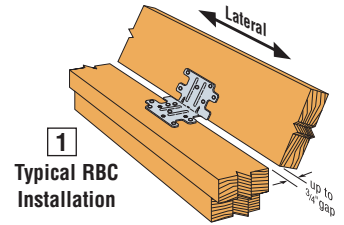
- IRC 2000/2003/2006, R802.8 Lateral Support
  - IBC 2000/2003/2006, 2308.10.6 Blocking
- Blocking allows proper edge nailing of sheathing.

Code references:

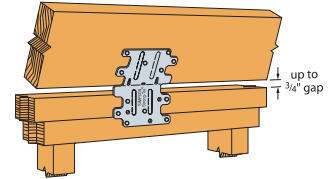
- IRC 2000/2003/2006, Table R602.3(1), footnote i
- IBC 2000/2003/2006, 2305.1.4 Shear Panel Connections



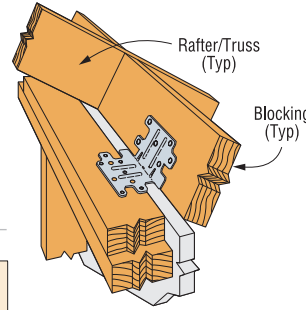
**RBC**  
U.S. Patent  
7,293,390



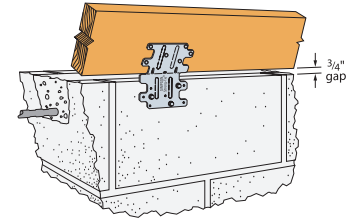
**1** Typical RBC Installation



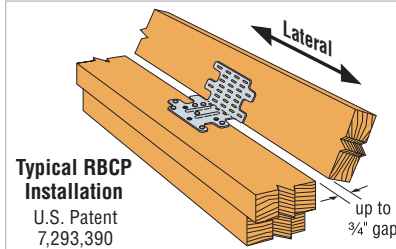
**2** Typical RBC Installation



Typical RBC Installation Over 1" Foamboard<sup>5</sup>



**3** Typical RBC Installation to CMU Block



Typical RBC Installation  
U.S. Patent  
7,293,390

The RBC is available with prongs into one side (RBCP) for pre-attachment of the part to a block at the truss plant. Refer to technical bulletin T-RBCP for more information.

Model No.	Type of Connection	Bending Angle	Fasteners		DF/SP Allowable Loads	SPF/HF Allowable Loads	Code Ref.
			To Wall	To Blocking	Lateral (160)	Lateral (160)	
RBC	1	45° to 90°	6-10dx1½	6-10dx1½	445	380	IP1, F25
	2	< 30°	6-10dx1½	6-10dx1½	435	375	
		30° to 45°	6-10dx1½	6-10dx1½	480	415	
	3	0° to 45°	3-¼x2¼ Titen <sup>4</sup>	6-10dx1½	350	350	

1. Allowable loads are for one anchor attached to blocking minimum 1½" thick.
2. RBC can be installed with up to ¾" gap and achieve 100% of the listed load.
3. Allowable loads have been increased 60% for wind or earthquake loading with no further increase allowed; reduce where other loads govern.
4. When attaching to concrete use 3-¼x1¾" Titen<sup>®</sup> screws.
5. RBC installed over 1" foamboard has a load of 395 lbs. (160) in a parallel to wall (F<sub>1</sub>) load direction for Douglas Fir. For SPF, the load is 340 lbs.
6. **NAILS:** 10dx1½ = 0.148" dia. x 1½" long. See page 16-17 for other nail sizes and information.

**A** Angles

Z2 clips secure 2x4 flat blocking between joists or trusses to support sheathing.

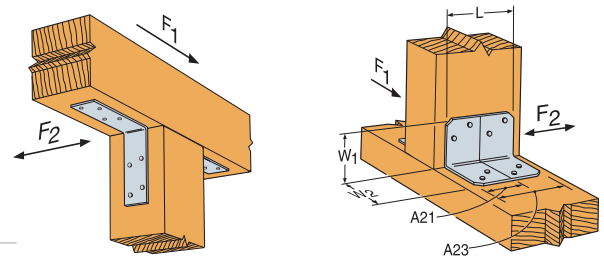
**MATERIAL:** Z clips—see table. A21 and A23—18 ga.; all other A angles—12 ga.

**FINISH:** Galvanized. Some products available in stainless steel or ZMAX<sup>®</sup> coating; see Corrosion Information, page 10-11.

**INSTALLATION:** • Use all specified fasteners. See General Notes.

- Z clips do not provide lateral stability. Do not walk on stiffeners or apply load until diaphragm is installed and nailed to stiffeners.

**CODES:** See page 12 for Code Reference Key Chart.



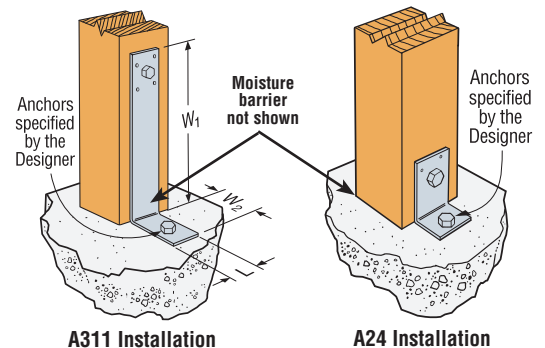
**A44 Installation**  
(A33 similar)

**A21/A23 Installation**

These products are available with additional corrosion protection. Additional products on this page may also be available with this option, check with Simpson Strong-Tie for details.

Model No.	Dimensions			Fasteners				Allowable Loads DF/SP (160)		Code Ref.
	W <sub>1</sub>	W <sub>2</sub>	L	Base		Post		F <sub>1</sub>	F <sub>2</sub>	
				Bolts	Nails	Bolts	Nails			
A21	2	1½	1¾	—	2-10dx1½	—	2-10dx1½	245	175	I14, L21, F13
A23	2	1½	2¾	—	4-10dx1½	—	4-10dx1½	585	565	
A33	3	3	1½	—	4-10d	—	4-10d	750	330	
A44	4¾	4¾	1½	—	4-10d	—	4-10d	750	295	170
A66	5¾	5¾	1½	2-¾	—	2-¾	—	—	—	
A88	8	8	2	3-¾	—	3-¾	—	—	—	
A24	3¾	2	2½	1-½	—	1-½	2-10d	—	—	
A311	11	3¾	2	1-½	—	1-½	4-10d	—	—	

1. Allowable loads have been increased 60% for wind or earthquake loading with no further increase allowed; reduce where other loads govern.
2. For SPF/HF lumber use 0.86 of table loads.
3. **NAILS:** 10dx1½ = 0.148" dia. x 1½" long, 10d = 0.148" dia. x 3" long. See page 16-17 for other nail sizes and information.



**A311 Installation**

**A24 Installation**