

The ICFLC, ICFLC-W, & ICFLC-CW ledger connector system is engineered to solve the challenges of mounting steel or wood ledgers on insulated concrete form (ICF) walls. Simpson's ledger connector system is easy, quick and versatile to use. The perforations in the embedded leg of the ICFLC permit the concrete to flow around it anchoring the ICFLC securely within the concrete. The exposed flange provides a structural surface for mounting either a wood or a steel ledger.

**MATERIAL:** ICFLC—14 gauge; ICFLC-W and ICFLC-CW—16 gauge.

**FINISH:** Galvanized.

**INSTALLATION:** • Snap chalk line for bottom of ledger.

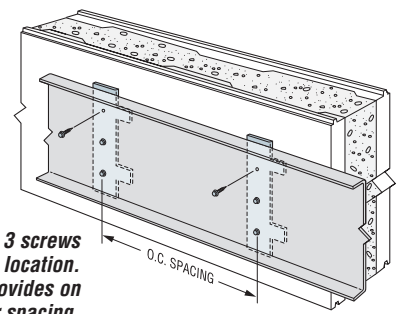
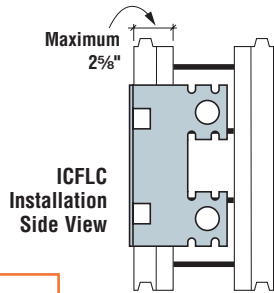
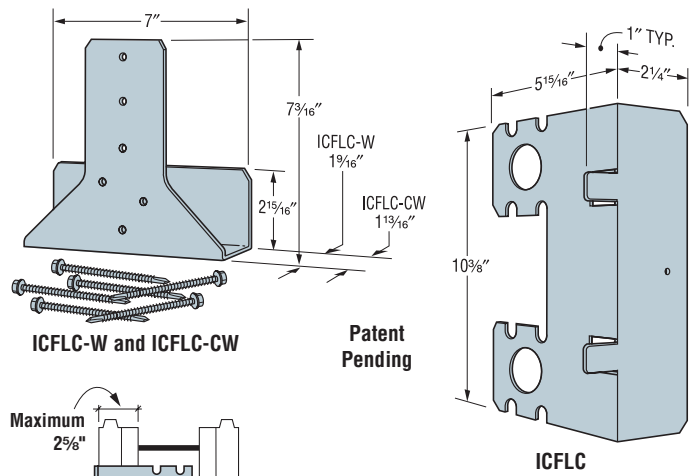
- Mark required on center spacing.
- Cut vertical kerfs at marks.
- Insert ICFLC
- Place concrete.
- **For Steel Ledger:** Position steel ledger against ICFLC.
  - Attach with three 1/4-14x3/4" #3 drill pt. screws (not provided). Minimum screw shear capacity is 750 lbs.
- **For Wood Ledger:** Slip ICFLC-W underneath wood ledger.
  - Attach the 6 D3 screws (provided) partially into ledger, starting at the bottom of the ICFLC-W.
  - Position the ICFLC-W or ICFLC-CW with the ledger against the ICFLC, and drive the screws through the wood and the ICFLC.

**CODES:** See page 10 for Code Listing Key Chart.

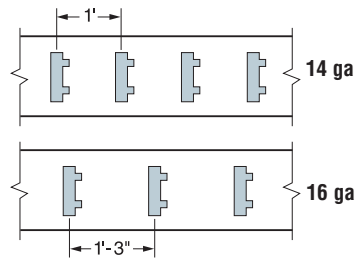
**COMPARISON CHART**

Bolts	ICFLC
12" o.c. spacing	Better o.c. spacing in most cases
Pressure-treated wood ledger	Pressure-treating is not necessary
Labor intensive	Quick and installs in less than half the time.
Protrusions are a safety issue	Flush mount - no protrusions to hook on.

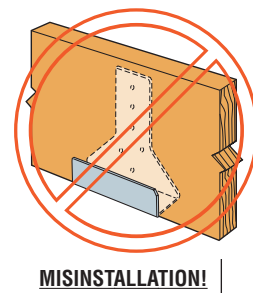
**WARNING:** Industry studies show that hardened fasteners can experience performance problems in wet environments. Accordingly, use this product in dry environments only.



**Typical Steel Ledger Installation with ICFLC (minimum 16 ga steel ledger)**



**SPACING ON DIFFERENT GAUGE STEEL LEDGERS:**  
This example shows ICFLC spacing to replace 1/2" diameter Anchor Bolts installed at 12" o.c. on 14 ga and 16 ga steel ledgers. This is for vertical loading applications only.

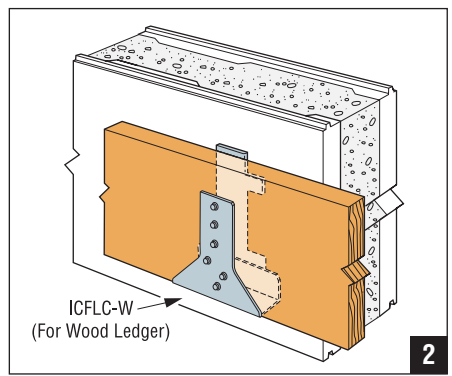
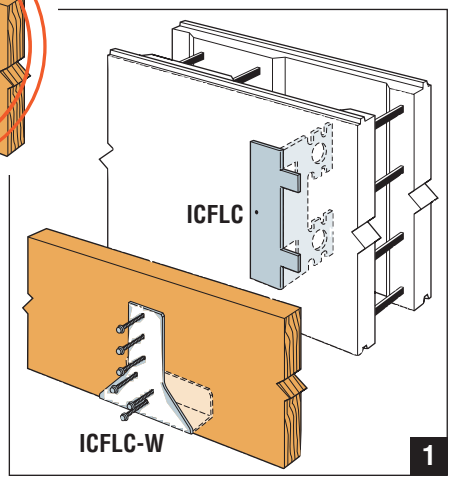


These tables address vertical load applications only.

Ledger Type	Model No.	Allowable Down Load <sup>2</sup> (lbs)	Spacing to Replace Anchor Bolts <sup>3,4,6</sup>								Code Ref.
			1/2" Dia. Bolts at				5/8" Dia. Bolts at				
			12"	24"	36"	48"	12"	24"	36"	48"	
DF/SPF	ICFLC w/ICFLC-W	1920	4'	4'	4'	4'	3'-9"	4'	4'	4'	160
LVL	ICFLC w/ICFLC-CW	1920	4'	4'	4'	4'	3'-6"	4'	4'	4'	
(0.054") 16 ga <sup>1</sup>	ICFLC	2060	1'-3"	2'-3"	—	—	1'	2'	—	—	
(0.068") 14 ga <sup>1</sup>	ICFLC	2060	1'	2'	—	—	9"	1'-6"	—	—	

Ledger Type	Model No.	Allowable Down Load <sup>2</sup> (lbs)	Spacing to Replace Anchor Bolts <sup>3,4,6</sup>								Code Ref.
			(2) 5/8" Dia. Bolts at				3/4" Dia. Bolts at				
			12"	24"	36"	48"	12"	24"	36"	48"	
DF/SPF	ICFLC w/ICFLC-W	1920	1'-9"	3'-9"	4'	4'	3'-6"	4'	4'	4'	160
LVL	ICFLC w/ICFLC-CW	1920	1'-9"	3'-6"	4'	4'	2'-9"	4'	4'	4'	
(0.054") 16 ga <sup>1</sup>	ICFLC	2060	—	—	—	—	—	—	—	—	
(0.068") 14 ga <sup>1</sup>	ICFLC	2060	—	—	—	—	—	—	—	—	

1. Minimum steel ledger specification is A-653 SQ Grade 50.
2. No load duration increase is allowed.
3. Spacing is based on vertical load only.
4. For steel ledger, spacing is based on a combination of ledger gauge and anchor bolt diameter. Spacing is closer for a 14 gauge ledger in order to achieve the equivalent bolt/ledger capacity.
5. Minimum concrete compressive strength (F'c) is 2500 psi.
6. The designer may specify different spacing based on the load requirements.
7. Allowable lateral capacity, parallel to the ledger and ICF wall, is 200 lbs at 1/8" deflection with no increase allowed. Use interaction equation for combined lateral and vertical loading to be less than 1.0. Some ICF systems may allow horizontal installation of the ICFLC to achieve higher lateral loads in addition to the ICFLC installed for the vertical loads.



**Typical Wood Ledger Installation with ICFLC and ICFLC-W (ICFLC-CW for LVL Ledger) similar**

Miscellaneous