

ICFVL Ledger Connector System

The ICFVL ledger connector system is engineered to solve the challenges of mounting CFS ledgers to insulated concrete form (ICF) walls. The ICFVL is designed to provide both vertical and lateral, in-plane performance. There are many benefits over traditional anchor bolting, including better on-center spacing in most cases, faster installation and no protrusions. The embedded legs of the ICFVL are embossed for additional stiffness and the hole allows for concrete to flow through and around the connector. The exposed flange on the face of the ICF provides a structural surface for mounting a CFS ledger.

Material: ICFVL — 68 mil (14 ga.)

Finish: Galvanized (G90)

Installation:

ICFVL in ICF

- Snap a chalk line for the bottom of the ledger
- Mark required on-center spacing
- Use ICFVL to mark kerfs locations
- Cut kerfs as marked
- Insert ICFVL flush to the face of the ICF
- Pour concrete

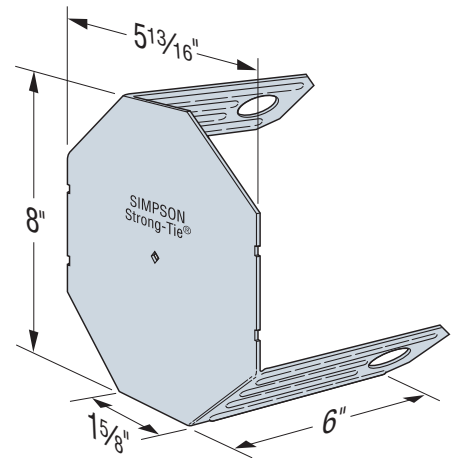
CFS Ledger Attachment

- Position the ledger level to the chalk line and against the ICFVL
- Attach with four #14 x 3/4", #3 drill point screws (not provided)
- All screws should be located at least 1/2" from the edge of the ICFVL
- Space screws evenly

Codes: See p. 13 for Code Reference Key Chart

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

New ICFVL models are coming Spring 2023. See strongtie.com for more information.



ICFVL
Patent pending

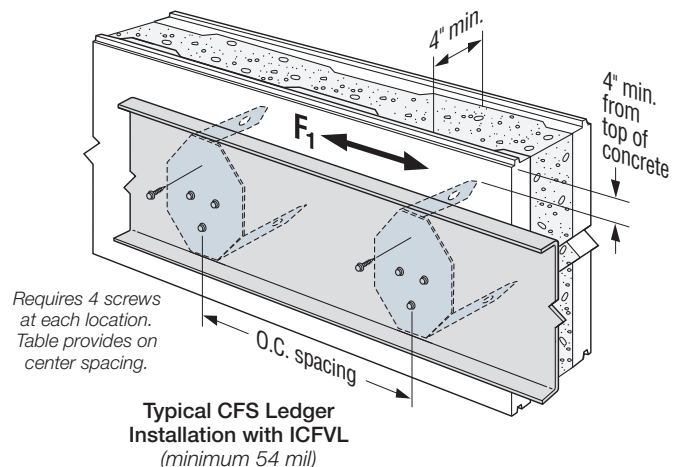
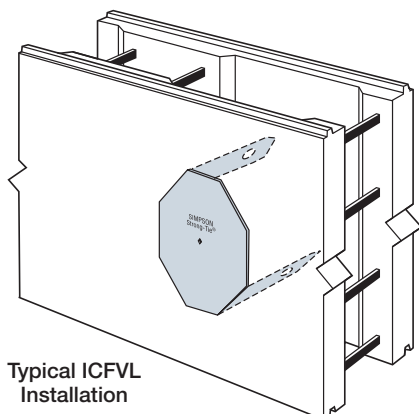
Model No.	Fasteners	Allowable ASD Load (lb.) 54 mil (16 ga.) 68 mil (14 ga.)		Code Ref.
		Download	Lateral F ₁	
ICFVL	(4) #14 ³	1,660	1,525	—

1. Fasteners for CFS ledger are not provided.
2. Loads apply to ICF foam thicknesses of 2 3/4" or less. Contact Simpson Strong-Tie for allowable loads on thicker walls.
3. Alternatively, 1/4" fastener may be used. Recommended maximum fastener length is 1" to avoid interfering with the concrete.
4. Concrete f'_c = 2,500 psi minimum.
5. When combining download and lateral loads, the designer shall use the following interaction equation: Design Download/Allowable Download + Design Lateral Load/Allowable Lateral Load ≤ 1.

These tables address vertical load applications only

Ledger Material Thickness mil (ga.)	Connector Type	ICFVL Spacing to Replace Anchor Bolts on a CFS Ledger (in.) ^{1,2}							
		1/2"-Diameter Anchors at				5/8"-Diameter Anchors at			
		12" o.c.	24" o.c.	36" o.c.	48" o.c.	12" o.c.	24" o.c.	36" o.c.	48" o.c.
68 (14)	ICFVL	11	22	33	44	9	18	27	36
54 (16)	ICFVL	15	30	45	48	12	24	36	48

1. The designer may specify different spacing based on the load requirements.
2. See flier F-ICFVL at strongtie.com for additional connection details.



Reduce the chance of misinstallations using the wrong size screws; specify Simpson Strong-Tie® #14 Self-Drilling E Metal screw (Model No. E1B1414) with the ICFVL Ledger Connector System. Visit strongtie.com for details.



Available in 100 ct. and 2,500 ct. cartons.