

ICF Connectors

GENERAL NOTES:

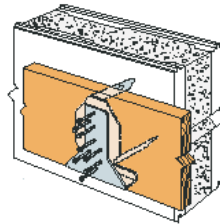
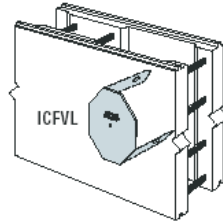
1. These products are not intended for use on pressure-treated lumber.
2. Do not splice ledger at ICFVL location.
3. No load duration increase is allowed.
4. Minimum concrete compressive strength (f_c) is 2500 psi.

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

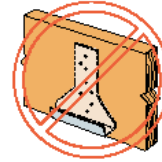
WOOD LEDGERS

Allowable Loads (lbs) - ASD	
Vertical	Lateral
1940	1905

1. Use eight ICF-D3 screws (provided).
2. Loads apply to ICF's with wall thickness 2 $\frac{1}{2}$ " or less. Contact Simpson for allowable loads on thicker walls.
3. Loads assume a minimum Spruce-Pine-Fir ledger.

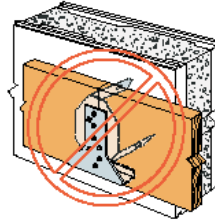
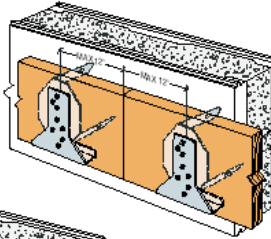


Typical Wood Ledger Installation with ICFVL and ICFVL-W
[ICFVL-CW (for LVL Ledger) similar]



MISINSTALLATION!

Recommended Splicing Installation



Splicing MISINSTALLATION!

ICFVL Spacing to Replace Anchor Bolts							
1/2" Diameter Bolts				5/8" Diameter Bolts			
12" o.c.	24" o.c.	36" o.c.	48" o.c.	12" o.c.	24" o.c.	36" o.c.	48" o.c.
48"	48"	48"	48"	43'	48"	48"	48"
(2) 5/8" Diameter Bolts				3/4" Diameter Bolts			
12" o.c.	24" o.c.	36" o.c.	48" o.c.	12" o.c.	24" o.c.	36" o.c.	48" o.c.
21"	42"	48"	48"	39'	48"	48"	48"

1. The Designer may specify different spacing based on the load requirements.
2. Spacings are based on perpendicular to grain capacity of bolt in wood ledger compared to tested value of ICFVL with a maximum allowable spacing of 48".

STEEL LEDGERS

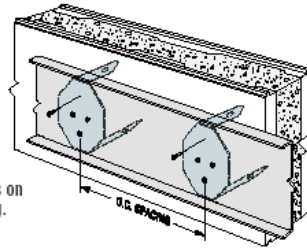
Allowable Loads (lbs) - ASD	
Vertical	Lateral
1660	1525

1. Use four 1/4-14x1/4", #3 drill point screws (not provided).
2. Loads apply to ICF's with wall thickness 2 $\frac{1}{2}$ " or less. Contact Simpson for allowable loads on thicker walls.

Ledger Thickness (mils)	Spacing to Replace Anchor Bolts			
	1/2" Diameter Bolts		5/8" Diameter Bolts	
	12" o.c.	24" o.c.	12" o.c.	24" o.c.
68 mils (0.068")	11"	22"	9"	18"
54 mils (0.054")	15"	30"	12"	24"

1. For steel ledgers, the 68 mil ledger spacing is closer than the 54 mil ledger because the calculated load of a bolt is higher in a thicker piece of steel.
2. Steel ledger values are based on steel. $F_u = 60$ ksi.

Requires 4 screws at each location. Table provides on center spacing.



Typical Steel Ledger Installation with ICFVL
(Minimum 16 gauge steel ledger)

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BB BuildBlock
BUILDING SYSTEMS, LLC

9701 N. Broadway Extension
Oklahoma City, Oklahoma 73114
www.buildblock.com

Office (405) 840-3386
Fax (405) 840-0625
Toll Free 1-866-222-2575

SIMPSON ICF CONNECTORS

DATE / REVISION	03-12-07 / 1	DETAIL SHEET
SCALE	NONE	15d
FILE NAME	BBDTL-15d.AEC	

Construction shall be built in accordance with all applicable local and national building codes. All drawings are subject to change without notice.