



# burmon

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# HURRICANE ANCHOR FOR ICF SINGLE SILL PLATE CONNECTION TO TRUSS/RAFTER



Burmon Hurricane Anchor (U.S. Patent No. 10280617B2) is specifically designed to tie down roof trusses to wall frames for US Building Systems and is FBC Code Compliant updated with latest changes to the 2018 International Building Code.

The revolutionary Burmon design enables the anchor to be securely fixed directly to the top plate. Using a cordless impact driver, simply attach the bracket to the top plate using Burmon panhead screws. The truss is then placed inside the bracket and fixed using Burmon roofing screws. This finishes the tie down of the trusses eliminating the hassle of going back later to nail off connectors. The Hurricane Anchor is faster and easier to install than ordinary conventional connectors whilst delivering a stronger tie down over the whole roof.



## FEATURES:

- ✓ Designed and engineered to resist 96% of all global high wind events
- ✓ High Wind Resistant
- ✓ Code Compliant
- ✓ Cost Competitive
- ✓ Fast and easy to install - Impact Driver Technology
- ✓ No toe nailing required
- ✓ Eliminate ugly dry wall bump
- ✓ Burmon Bracket has higher capacities than ordinary connectors
- ✓ All Fasteners supplied in box
- ✓ 2010 lbs of Uplift Capacity

# HURRICANE ANCHOR FOR ICF SINGLE SILL PLATE CONNECTION TO TRUSS/RAFTER

TECHNICAL INFORMATION

BURMON STOCK CODE **BHBSP**

## SPECIFICATION

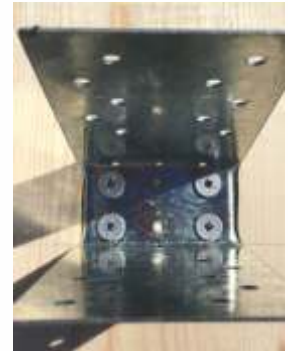
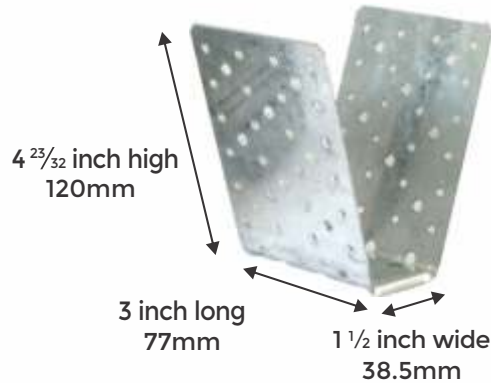
### STEEL

Gauge  
Corrosion Finish

18  
G90

### SCREWS

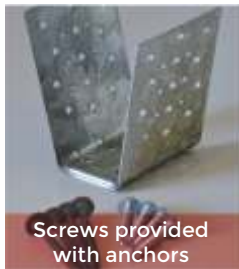
Burmon screws  
comply to 1000 hours  
Salt Spray Testing



## EASY TO INSTALL

**1**

POSITION



Screws provided  
with anchors

Position BHB anchor  
at the set out point  
on the top plate.

**2**

FIX



Screw fix BHB anchor to  
top plate with Burmon  
screws

**3**

SECURE



Screw fix roof  
truss/rafter each side to  
BHB anchor using  
Burmon screws

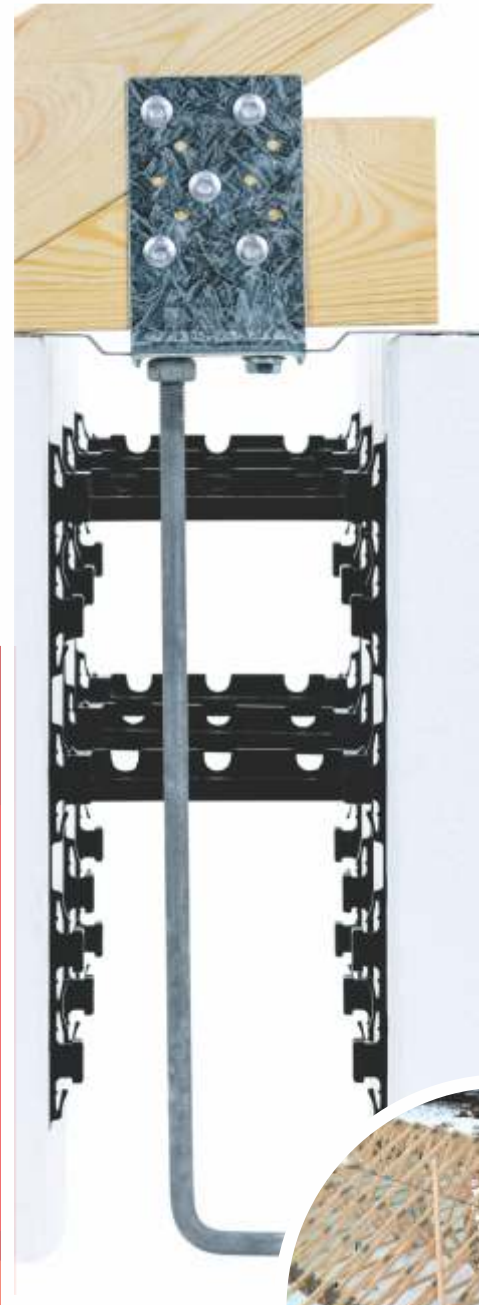
## LOAD TABLE

Please note: these are single plate numbers.

| Burmon Stock No. | Ref No. | Steel Gauge | FASTENER SCHEDULE |       |              |       | Installation type | DF/SP Allowable Load (lbs) <sup>1</sup> |             |                 | S-P-F Allowable Load (lbs) <sup>1</sup> |             |                 | Corrosion Finish |
|------------------|---------|-------------|-------------------|-------|--------------|-------|-------------------|-----------------------------------------|-------------|-----------------|-----------------------------------------|-------------|-----------------|------------------|
|                  |         |             | Truss/Rafter      |       | Single Plate |       |                   | Number of Anchors                       | Uplift 160% | Lateral F1 160% | Lateral F2 160%                         | Uplift 160% | Lateral F1 160% |                  |
| BHBSP            | BHB     | 18          | 6                 | BHH39 | 4            | BSD39 | SINGLE ANCHOR     |                                         |             |                 |                                         |             |                 | 1340             |
|                  |         |             | 3 each side       |       |              |       |                   |                                         |             |                 |                                         |             |                 |                  |
| BHBSP            | BHB     | 18          | 8                 | BHH39 | 6            | BSD39 | SINGLE ANCHOR     | 2010                                    | 1145        | 924             | 1567                                    | 893         | 720             | G90              |
|                  |         |             | 4 each side       |       |              |       |                   |                                         |             |                 |                                         |             |                 |                  |

- Allowable loads have been increased 60% for wind and seismic loads, no further increase shall be permitted.
- Minimum quantity of fasteners to be installed. Product has additional screw holes not needed to meet published allowable load of product.
- To view code report, please visit our website [www.burmon.com/code-reports](http://www.burmon.com/code-reports) or visit the code evaluation agency's website.

# HURRICANE ANCHOR FOR ICF CONCRETE CONNECTION TO TRUSS/RAFTER



Burmon Hurricane Anchor (U.S. Patent No. 10280617B2) is specifically designed to anchor roof trusses and rafters directly to the concrete for ICF construction. BHBCON is FBC Code Compliant updated with latest changes to the 2018 International Building Code.

The ICF Hurricane Anchor has been especially designed for US conditions and modern ICF concrete building techniques to deliver safer, more efficient and higher load rafter/truss anchor connections that deliver significant cost savings over the total house build. Scaled over multiple projects, the benefits of using Burmon Hurricane Anchors are compelling.

## FEATURES:

- ✓ FBC Code Compliant updated with latest changes to the 2018 International Building Code
- ✓ Designed and engineered to resist winds up to 250 mph
- ✓ No hand nailing required
- ✓ Trusses screw fixed through nail plate
- ✓ Hurricane Anchor fixed into place over ICF Wall
- ✓ Significant cost savings to the total house build
- ✓ Stronger, faster connection
- ✓ Anchors hold trusses in position making bracing easier and safer





# HURRICANE ANCHOR FOR ICF CONCRETE CONNECTION TO TRUSS/RAFTER

TECHNICAL INFORMATION

BURMON STOCK CODE **BHBCONICF**

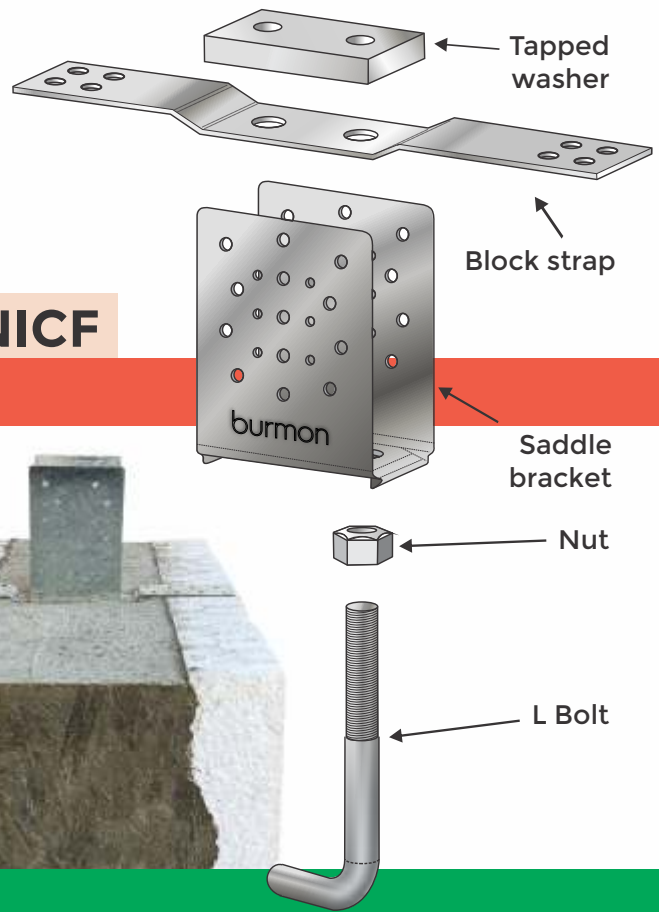
## SPECIFICATION

### STEEL

Gauge 18  
 Corrosion Finish G90  
 Bracket Mild steel  
 Threaded washer Alloy Steel, HDG  
 L-Bolt

### SCREWS

Burmon screws comply to 1000 hours Salt Spray Testing



## EASY TO INSTALL

**1**

FASTEN



Screw L-Bolt to BHBCON and tighten

**2**

POSITION



Position BHBCON at truss/rafter mark

**3**

FIX



After concrete pour and set, screw truss/rafter to BHBCON

## LOAD TABLE

| Burmon Stock No. | Ref No. | Steel Gauge | L-BOLT (embedded into concrete)<br>Burmon L-Bolt length<br>½ inch thickness | FASTENER SCHEDULE                     |                                     | SP/DF Allowable Load |                |            |            | Corrosion Finish                     |
|------------------|---------|-------------|-----------------------------------------------------------------------------|---------------------------------------|-------------------------------------|----------------------|----------------|------------|------------|--------------------------------------|
|                  |         |             |                                                                             |                                       |                                     | MASONRY              | CONCRETE       | MASONRY    | CONCRETE   |                                      |
| BHBCON           | BHBCON  | 18          | 15 ¾ inches<br>Alloy Steel, HDG                                             | Min Qty<br><b>10</b><br>(5 each side) | Type<br>Burmon Screws<br><b>BHH</b> | Uplift<br>160%       | Uplift<br>160% | F1<br>160% | F2<br>160% | L-Bolt:<br>HDG<br><br>Anchor:<br>G90 |

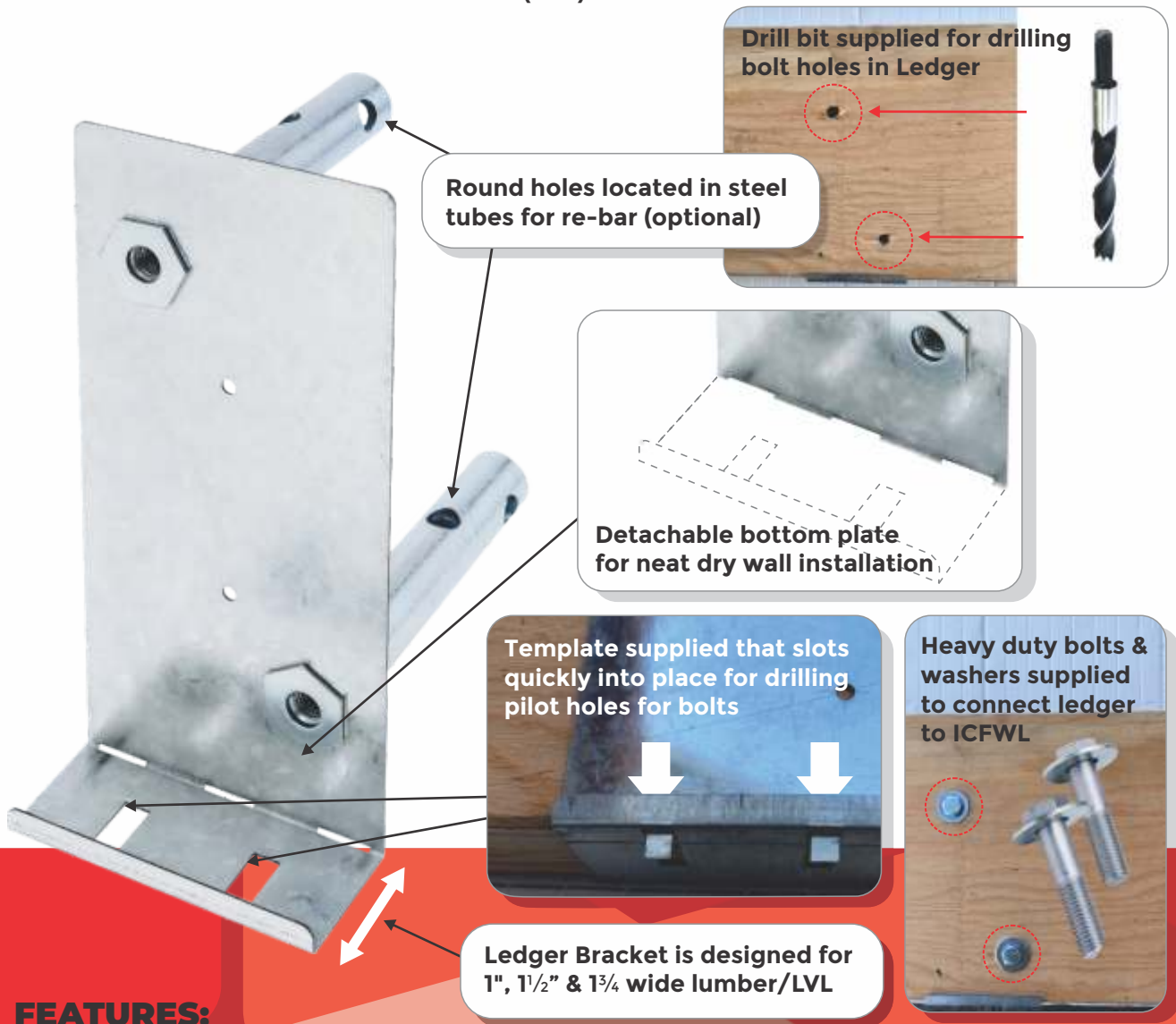
- Allowable loads have been increased 60% for wind and seismic loads, no further increase shall be permitted.
- Allowable loads are based on anchorage to masonry/uncracked concrete.
- Minimum specified masonry or concrete compressive strength f'm 1500 psi and f'c is 2500 at 28 days respectively.
- Minimum quantity of fasteners to be installed. Product has

additional screw holes not needed to meet published allowable load of product.

- Screw L-Bolt to threaded washer until bolt sits flush with threaded washer and tighten nut.
- To view code report, please visit our website [www.burmon.com/code-reports](http://www.burmon.com/code-reports) or visit the code evaluation agency's website.

# ICF WOOD LEDGER CONNECTORS

Burmon's ICF Wood & Steel Ledgers utilize the Burmon ICF Connector System, a revolutionary double threaded cylinder bolt assembly that connects and anchors wood ledger brackets, wood and steel ledgers, joist hangers, I- joists, beams and trusses to insulated concrete forms (ICF) walls.



## FEATURES:

- ✓ Fast and easy to install
- ✓ Costs significantly less than ordinary Ledger Connectors
- ✓ Revolutionary Double Cylinder Bolt Technology
- ✓ Ledger bracket, bolts and washers supplied
- ✓ Template supplied for marking out bolts
- ✓ No drilling through steel plates
- ✓ ICFWL designed for 1", 1 1/2" & 1 3/4" wide lumber/LVL
- ✓ 25% Higher Capacity than other brand Ledger Connectors

# ICF WOOD LEDGER CONNECTORS

## TECHNICAL INFORMATION

BURMON STOCK CODE **ICFWL**

### SPECIFICATION

| ALLOWABLE LOADS (LB) - ASD |         |          |        |                  |
|----------------------------|---------|----------|--------|------------------|
| Vertical                   | Lateral | Pullout* | Uplift | Corrosion Finish |
| 2520                       | 2490    | 2845     | 2330   | Galvanizing G90  |

- Fasteners for wood ledgers provided with part
- Loads apply to ICF foam thickness of 3¼ or less.
- Concrete should have a minimum compressive rate of  $f_c = 2,500$  psi (17.25 MPa)
- The bolts of BURMON-ICFWL must be no closer than 4 inches to the top of wall.
- \*When attaching a deck to an ICF wall, place one ½ inch hex bolt 3½ inches long into each cylinder bolt hole as shown at right.



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**NOTE:** The Allowable Load Table is calculated in accordance with ASTM D7147-11 Section 13, the allowable downward load is calculated as the lesser of:

- The lowest ultimate load per hanger divided by 3.
- The average, over each hanger in each specimen, load that produces a vertical deflection of 0.125 inches at the bottom of the hanger with respect to the wall. Refer to Intertek Engineering report K9541.01-119-42 RO for Test results.

[https://burmon.com/file\\_download/183](https://burmon.com/file_download/183)

This table addresses vertical and pullout\* load applications for foam thickness up to 3¼ inches.  
For foam thickness greater than 3¼ inches, contact our office for specific details.

### Burmon ICFWL - Wood Ledger Spacing to Replace Anchor Bolts (inches)

| Ledger Type       | ½ inch Diameter Anchors at |            |            |            | ⅝ inch Diameter Anchors at |            |            |            | (2) ⅝ inch Diameter Anchors at |            |            |            | ¾ inch Diameter Anchors at |            |            |            |
|-------------------|----------------------------|------------|------------|------------|----------------------------|------------|------------|------------|--------------------------------|------------|------------|------------|----------------------------|------------|------------|------------|
|                   | 12 in O.C.                 | 24 in O.C. | 36 in O.C. | 48 in O.C. | 12 in O.C.                 | 24 in O.C. | 36 in O.C. | 48 in O.C. | 12 in O.C.                     | 24 in O.C. | 36 in O.C. | 48 in O.C. | 12 in O.C.                 | 24 in O.C. | 36 in O.C. | 48 in O.C. |
| 2 x D.Fir-L/S-P-F | 48in                       | 48in       | 48in       | 48in       | 38in                       | 48in       | 48in       | 48in       | 19in                           | 38in       | 48in       | 48in       | 34in                       | 48in       | 48in       | 48in       |
| 1¼ SCL            | 48in                       | 48in       | 48in       | 48in       | 34in                       | 48in       | 48in       | 48in       | 17in                           | 34         | 48in       | 48in       | 28in                       | 48in       | 48in       | 48in       |

- The Designer may specify different spacing based on load requirements. It is recommended to space the components at multiples of the joist spacing to help reduce the chance of interference with the joist hangers.
- Spacings are based upon the perpendicular to grain capacity of a bolt in a wood ledger compared to tested value of ICFWL.

### Spacing for Burmon ICFWL (in.)

| UNIFORM LOADS   |                 | JOIST SPAN (ft.) |    |    |    |    |    |    |    |    |    |
|-----------------|-----------------|------------------|----|----|----|----|----|----|----|----|----|
| DEAD LOAD (pfs) | LIVE LOAD (pfs) | 10               | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 |
| 10              | 40              | 48               | 48 | 48 | 48 | 48 | 47 | 42 | 39 | 36 | 33 |
| 15              | 40              | 48               | 48 | 48 | 48 | 47 | 42 | 38 | 35 | 33 | 30 |
| 20              | 40              | 48               | 48 | 48 | 48 | 43 | 39 | 35 | 32 | 30 | 28 |
| 10              | 60              | 48               | 48 | 48 | 42 | 37 | 33 | 30 | 28 | 26 | 24 |
| 20              | 60              | 48               | 48 | 42 | 36 | 32 | 29 | 26 | 24 | 22 | 21 |
| 30              | 60              | 48               | 43 | 37 | 32 | 29 | 26 | 24 | 22 | 20 | 18 |
| 40              | 60              | 47               | 39 | 33 | 29 | 26 | 23 | 21 | 19 | 18 | 17 |
| 10              | 100             | 42               | 35 | 30 | 26 | 24 | 21 | 19 | 18 | 16 | 15 |
| 20              | 100             | 39               | 32 | 28 | 24 | 22 | 19 | 18 | 16 | 15 | 14 |

- Values in the cells highlighted represent the maximum allowable spacing of 48".
- Spacing tables address vertical load applications only. If the connection is designed to resist simultaneous lateral loads, spacing may decrease. Contact Burmon Building Products for additional information.
- Values shown are maximum spacing distances (in.) based on simple span, uniformly loaded conditions and do not consider concentrated loads.
- Joist and ledger are to be designed by others.
- Allowable loads are based on testing, with no further increases allowed.

## ICF JOIST HANGER

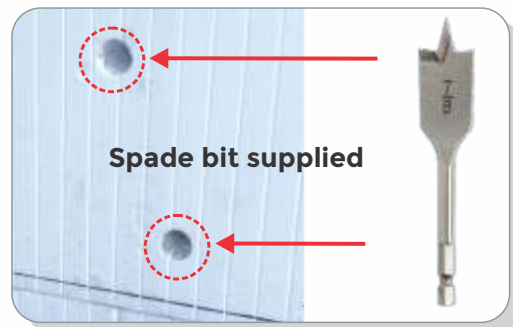
Burmon's ICF Joist Hanger utilizes the Burmon ICF Connector System, a revolutionary double threaded cylinder bolt assembly that connects and anchors wood ledger brackets, wood and steel ledgers, joist hangers, I-joists, beams and trusses to insulated concrete forms (ICF) walls.



*Burmon's ICF Joist Hangers were a great success, so easy to install. All stayed in place for the pour as well as saving labour and time for the contractors. Installing the joists took less than a day.*

**Malcolm**

Sideland Developments Limited



Joist Hangers are available for 1½", 2½" & 3½" widths

### FEATURES:

- ✓ No Wood Ledger Required
- ✓ Fast and Easy to Use
- ✓ High Capacity & Cost Effective
- ✓ Spade Drill Bit supplied
- ✓ Joist Hangers, Bolts and Washers Supplied
- ✓ Engineered for ICF Construction
- ✓ Available in 1½, 2½ & 3½ widths
- ✓ Fits Tightly in ICF Wall During Concrete Pour



# ICF JOIST HANGER

## TECHNICAL INFORMATION

BURMON STOCK CODE **ICFJH**

### SPECIFICATION



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ENGINEERING  
REPORT**

**NOTE:** The Allowable Load Table is calculated in accordance with ASTM D7147-11 Section 13, the allowable downward load is calculated as the lesser of:

- The lowest ultimate load per hanger divided by 3.
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[https://burmon.com/file\\_download/183](https://burmon.com/file_download/183)



### LOAD TABLE

| Burmon Stock No.   | Steel Gauge | Hanger seat width | Hanger height | Hanger seat depth | Nail fastener schedule | DF/SP LVL Floor Allowable Load (lbs) |         | DF/SP LVL Allowable Load (lbs) | Corrosion finish |
|--------------------|-------------|-------------------|---------------|-------------------|------------------------|--------------------------------------|---------|--------------------------------|------------------|
|                    |             |                   |               |                   |                        | Vertical                             | Lateral | Uplift                         |                  |
| BURMON-ICFJH 1-1/2 | 14          | 1½                | 8"            | 3"                | N10                    | 1922                                 | 1890    | 1770                           | G90              |
| BURMON-ICFJH 2-1/2 | 14          | 2½                | 8"            | 3"                | N16                    | 1922                                 | 1890    | 1770                           | G90              |
| BURMON-ICFJH3-1/2  | 14          | 3½                | 8"            | 3"                | 16d common             | 1922                                 | 1890    | 1770                           | G90              |

- Loads apply to ICF foam thickness of 3¼" or less.
- Fill all hanger holes with nails specified.
- Concrete should have a minimum compressive rate of  $f'c = 2,500$  psi (17.25 MPa)
- The bolts of BURMON ICFJH must be no closer than 4 inches to the top of wall.



# ICF BUCK BRACE

BURMON STOCK CODE **SBBB**

There is a need in the ICF industry for a better way to brace ICF openings. The patent pending Burmon Buck Brace is engineered to brace the horizontal pressures of the concrete during the pour in the ICF Bucks. The Burmon Buck Brace eliminates all horizontal wood bracing, saving on lumber and labor costs.

- ✓ Faster and more convenient than cutting lumber on the job
- ✓ Adjustable to suit most widths of 6- and 8-inch core ICF Blocks
- ✓ Engineered and designed for horizontal bracing
- ✓ Cost effective, long lasting
- ✓ Less waste, more efficient
- ✓ Made from 18 Gauge Galvanised Steel
- ✓ Works with wood, steel and polystyrene bucks
- ✓ Reduced blocked openings making passage through openings easier

## ICF BUCK BRACE SPACING TABLE

| Buck Materials                                    | Spacing       |
|---------------------------------------------------|---------------|
| Lumber 1½"                                        | 24" on center |
| Steel Stud                                        | 24" on center |
| Proprietary Buck System moulded with web 2 lb EPS | 16" on center |
| 2" x 2 lb EPS Foam                                | 16" on center |







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