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ICF Roof and Floor Connectors

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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

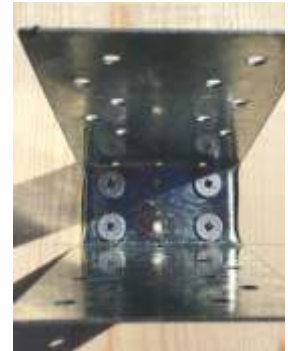
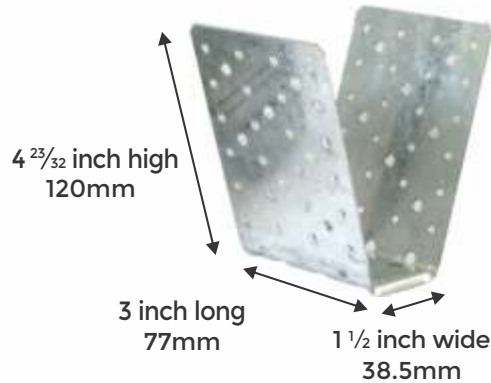
STEEL

Gauge
Corrosion Finish

18
G90

SCREWS

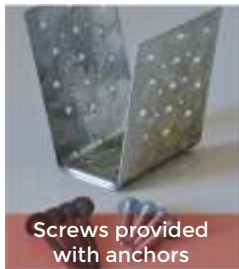
Burmon screws
comply to 1000 hours
Salt Spray Testing



EASY TO INSTALL

1

POSITION

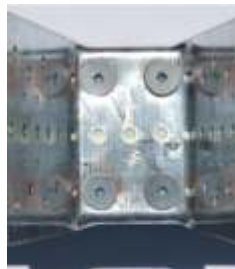


Screws provided
with anchors

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

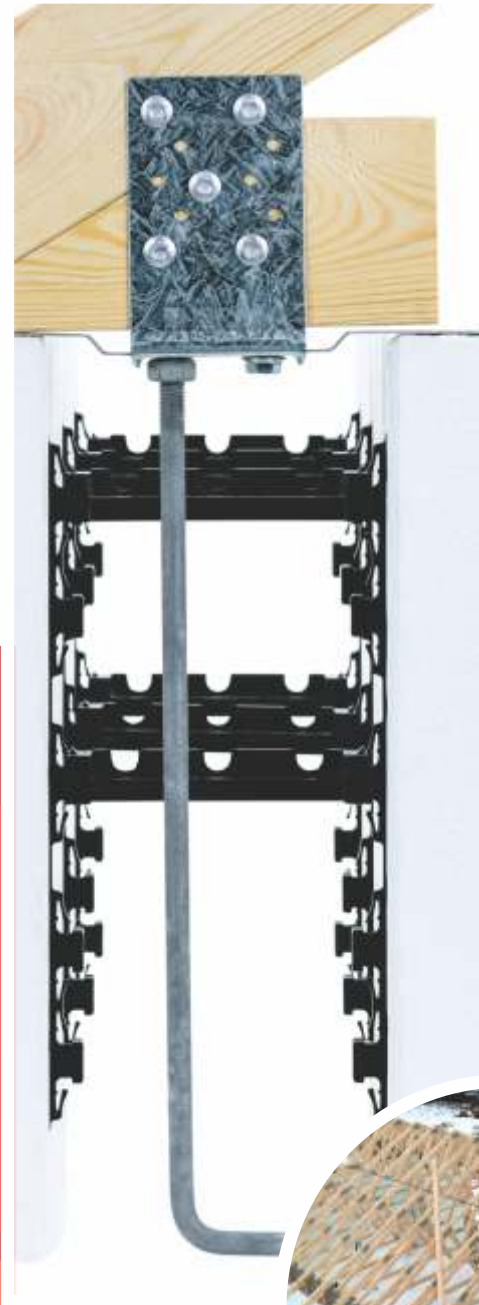
LOAD TABLE

Please note: these are single plate numbers.

Burmon Stock No.	Ref No.	Steel Gauge	FASTENER SCHEDULE				Installation type	DF/SP Allowable Load (lbs) ¹			S-P-F Allowable Load (lbs) ¹			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 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**

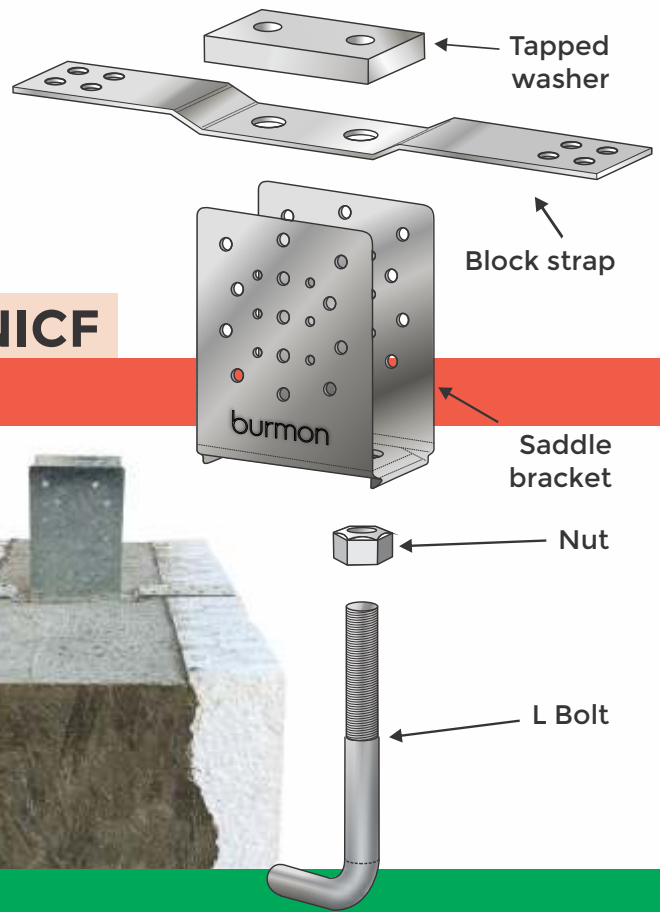
SPECIFICATION

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) Burmon L-Bolt length ½ inch thickness	FASTENER SCHEDULE		SP/DF Allowable Load				Corrosion Finish
						MASONRY	CONCRETE	MASONRY	CONCRETE	
BHBCON	BHBCON	18	15 ¾ inches Alloy Steel, HDG	Min Qty 10 (5 each side)	Type Burmon Screws BHH	Uplift 160%	Uplift 160%	F1 160%	F2 160%	L-Bolt: HDG Anchor: G90

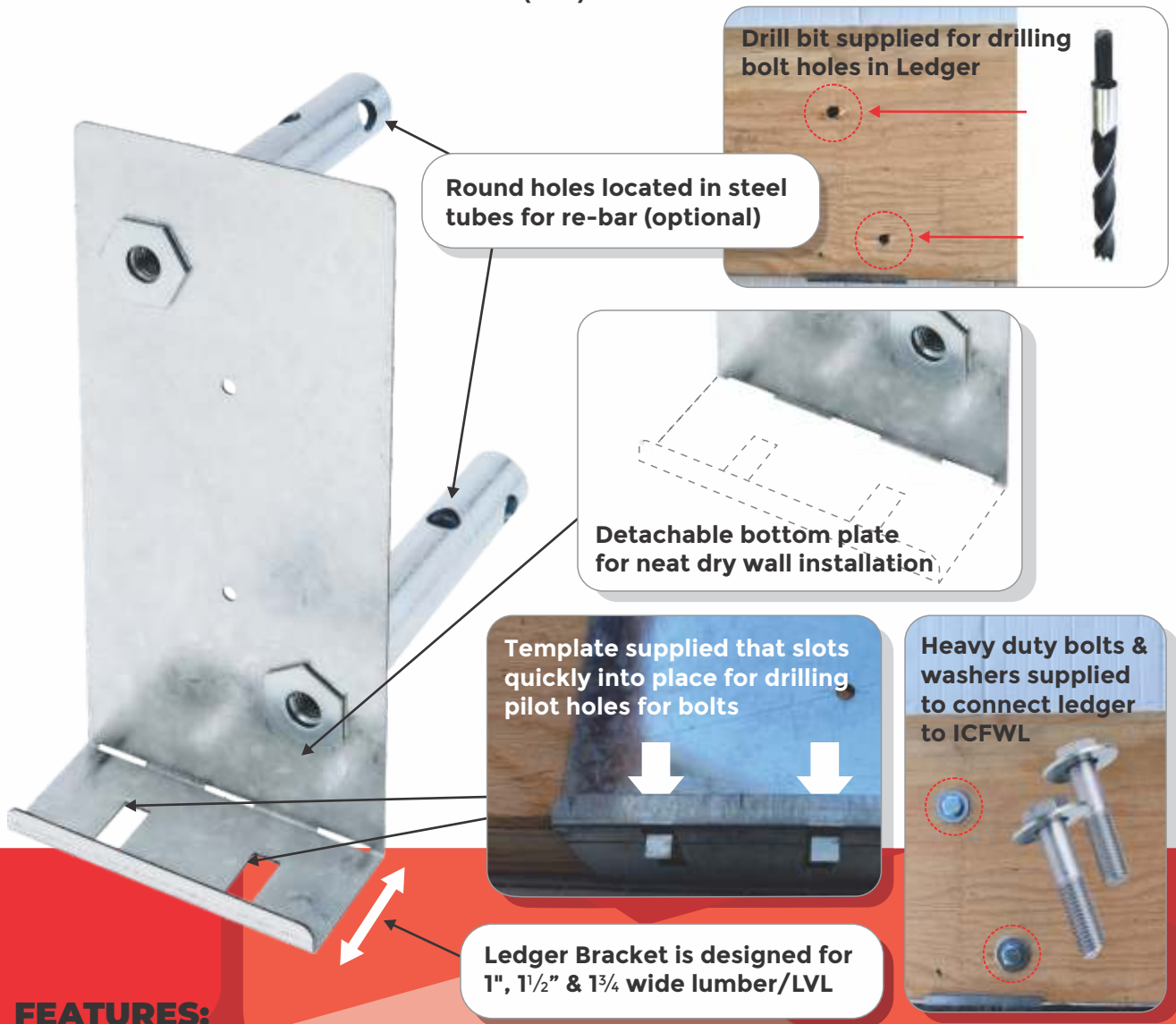
- Allowable loads have been increased 60% for wind and seismic loads, no further increase shall be permitted.
- Allowable loads are based on anchorage to masonry/uncracked concrete.
- Minimum specified masonry or concrete compressive strength f'm 1500 psi and f'c is 2500 at 28 days respectively.
- Minimum 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 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 3/4" 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 1/2 inch hex bolt 3 1/2 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

This table addresses vertical and pullout* load applications for foam thickness up to 3/4 inches.
For foam thickness greater than 3/4 inches, contact our office for specific details.

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

Ledger Type	1/2 inch Diameter Anchors at				5/8 inch Diameter Anchors at				(2) 5/8 inch Diameter Anchors at				3/4 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
1 1/4 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

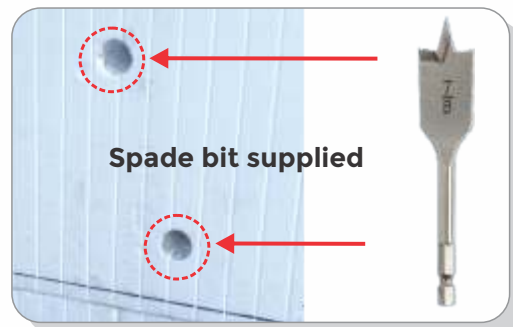
Burmon's ICF Joist Hanger utilizes the Burmon ICF Connector System, a revolutionary double threaded cylinder bolt assembly that connects and anchors wood ledger brackets, wood and steel ledgers, joist hangers, I-joists, beams and trusses to insulated concrete forms (ICF) walls.



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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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



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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