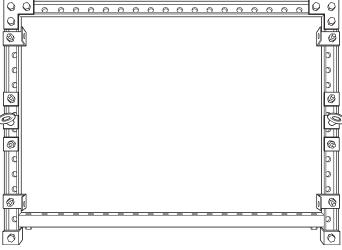




Engineered Seismic Floor Bracing Frame Assembly Instructions - Model LRF30CA



For Installation services, please contact **QuakeHOLD Industrial** at 1-800-232-7836. For the engineered specifications, please visit: **Quakeholdindustrial.com**



Engineered Floor Bracing Frame Assembly Instructions

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۲ (6	For Installation services, please contact QuakeHOLD Industrial at 1-800-232-7836. For the engineered specifications,	

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Engineered Floor Bracing Frame Assembly Instructions - Model LRF30CA **Tools Needed**



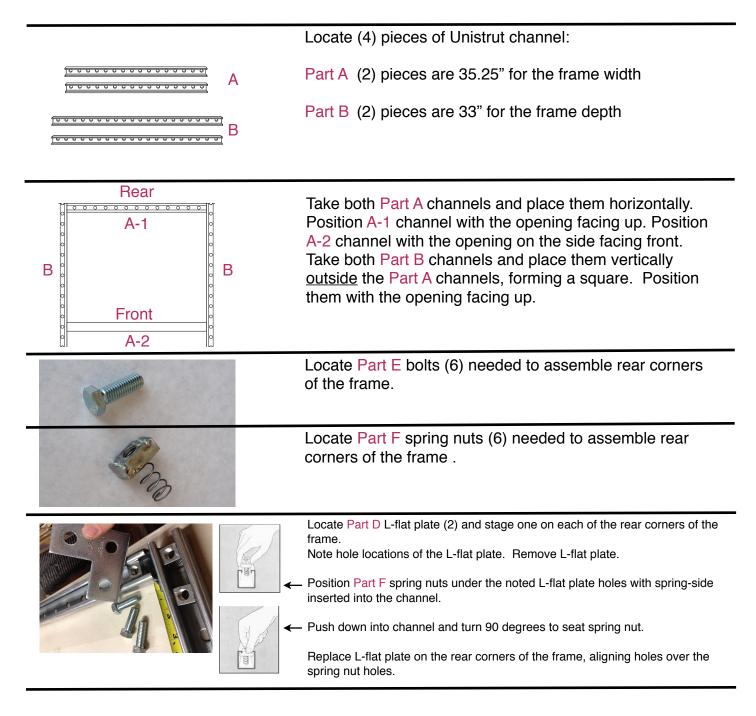
Engineered Floor Bracing Frame Assembly Instructions **Components Enclosed**

Components Enclosed	
2000	Part A 35.25" long Unistrut channel ((CUTS SHOULD BE MADE TO FIT CORRECTLY, SEE PAGE 6 FOR REFERENCE)) (2) metal framing channel, 1-5/8" x 1-5/8"
2000	Part B 33" long Unistrut channel ((CUTS SHOULD BE MADE TO FIT CORRECTLY, SEE PAGE 6 FOR REFERENCE)) (2) metal framing channel, 1-5/8" x 1-5/8"
	<u>Part C</u> Closure strip, plastic, 2" wide top, gray
	Part D (2) P1036 Back Corner Bracket, L-flat plate, 3-hole, electro galvanized, 3-1/2" x 3-1/2" x 1-5/8"
	Part E (10) bolt, 1/2" 13 tpi x 1-1/4"
	<u>Part F</u> (12) P1010, spring nut, 1/2"
	Part G (1) P2341 Front Corner Bracket, wing-shape fitting, electro galvanized, 1-5/8" x 1-5/8" x 1-5/8" - left
49	<u>Part H</u> (1) P2341 Front Corner Bracket, wing-shape fitting, electro galvanized, 1-5/8" x 1-5/8" x 1-5/8" - right

Engineered Floor Bracing Frame Assembly Instructions - Model LRF30CA **Components Enclosed**

	Part I (2) eye bolt, stainless steel,1/2" dia
6	<u>Part J</u> (6) P1064, square washer, electro galvanized, 1-5/8" x 1-5/8"
	Part K (4) L bracket, powder coated, L2 1/2"x 2 1/2" X 3/8"- 2"
and the second sec	Part L1/2 (4) carbon steel anchor, 1/2" x 5-1/2" Part L3/4 (4) stainless steel anchor, 3/4" X 6 1/4"
	Part M (4) end cap, electro galvanized,1-5/8" x 1-5/8"
	Part N (2) corner ratchet-strap guide bracket, powder-coated steel, gray
	Part O (1) ratchet strap assembly, gray

Engineered Floor Bracing Frame Assembly Instructions - Model LRF30CA Shaping the Base Frame and Joining Rear Components





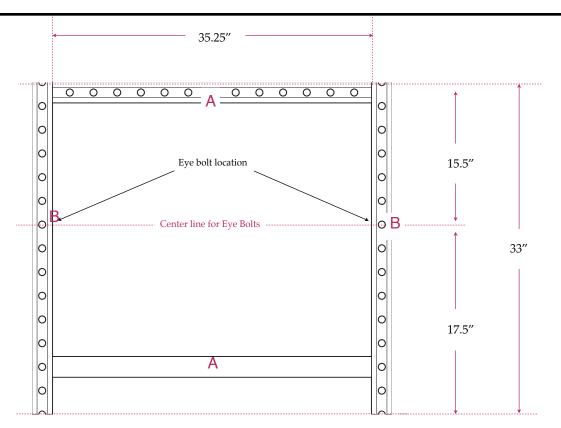
Insert Part E bolts through the L-flat plate holes and into the spring nuts. Firmly tighten bolts.

Engineered Floor Bracing Frame Assembly Instructions - Model LRF30CA Shaping the Base Frame and Joining the Components

NOTE - Attaching (2) front corners of the frame: Horizontal channel opening must be facing you. Vertical channel opening must be facing up. Use Part G wing-shape fitting on the **left** corner. Use Part H wing-shape fitting on the **right** corner.



Engineered Floor Bracing Frame Assembly Instructions - Model LRF30CA **Positioning and Inserting Eyebolts**



Mark the center of the vertical strut Part B, as shown above.



Into the established center, position Part F spring nuts with spring-side inserted into the channel. Push down into channel and turn 90 degrees to seat spring nut.

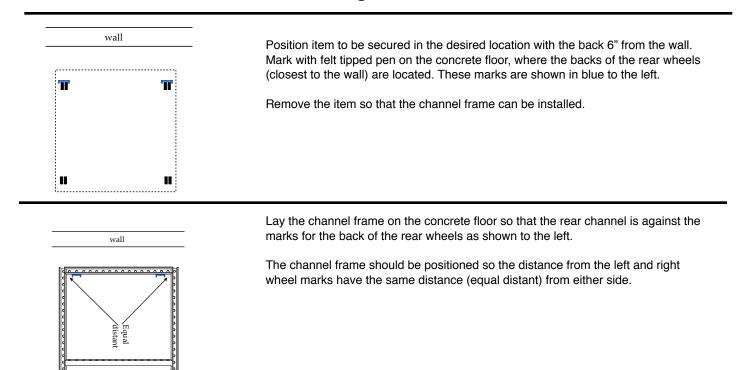


Slide Parts # J square washer over Parts # I eye bolt and screw into the centered Part F spring nut.



When positioned and centered, on both the left and right, tighten the eye bolts Parts # I firmly.

Engineered Floor Bracing Frame Assembly Instructions - Model LRF30CA **Positioning of Base Frame**



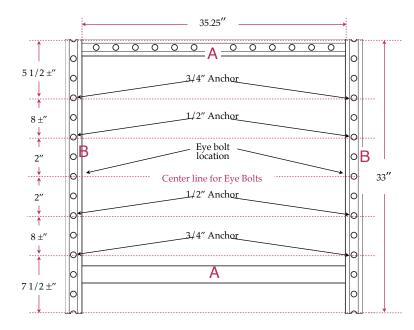
Floor Anchoring

Now that the eye bolts are centered and positioned, the next step is to find the points where the anchors, Parts # L1/2 & L3/4, are to be set. Gather the included; (4) Parts # L1/2 (4) Parts # L3/4, (4) Parts # J and the (4) Parts # K. <u>Please note:</u> (4) Floor anchor points will use Parts # J with Parts #L1/2 and (4) will use Parts # K,

<u>Please note:</u> (4) Floor anchor points will use Parts # J with Parts #L1/2 and (4) will use Parts # K along with the (4) The Parts # L3/4. Please see diagram below for placements.









Engineered Floor Bracing Frame Assembly Instructions - Model LRF30CA Floor Anchoring



Once all your holes are marked, remove the bracket and drill your holes with your hammer drill, 1/2" and 3/4" hammer drill bit.



Be sure to use a vacuum and wear your personal protective gear when drilling.

For your 1/2" X 5 1/2" Part # L1/2: Drill your holes into the cement at least 3 1/4" deep.

For your 3/4" X 6 1/4" Part # L3/4: Drill your holes into the cement at least 3 3/4" deep.

1/2" Anchor MUST have at least a 3 1/4" embedment3/4" Anchor MUST have at least a 3 3/4" embedment



It is important to blow out your drilled holes because excess dust tends to stay in the bottom manipulating your depth drilled.

Note: We recommend HILTI BLOW OUT PUMP Item No.: 00060579 or equal

Engineered Floor Bracing Frame Assembly Instructions - Model LRF30CA Floor Anchoring



After your 8 holes are drilled and blown out. It is time to set your Parts # L1/2 and Parts # L3/4 with a hammer.

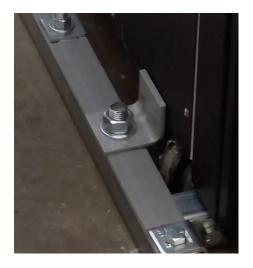
For the (4) 1/2" anchors on either side of the eye bolt, place the square washer on the anchor and screw on the nut on top of it.

Screw the nut down over the anchor so you have 2 threads showing at the top above the top of the nut.

Place the anchor into the hole through the bottom of the strut.

Hammer the anchor in until it hits the bottom of the hole, or the square washer bottoms out on the top of the strut.

Tighten firmly.



Follow the instructions above for the 4 outside anchors. The only exception being the "L" bracket under the 3/4" ID washer and nut that is provided with the anchor as shown in the photo to the left.

Tighten firmly.

Remove the 4 bolts from the assembly holding the front channel and completely remove the front channel and put it aside.

Roll the items into the frame all the way back to so the back wheels rest against the rear channel Part A.

Replace the front channel sliding it firmly against the front wheels. Reinstall the bolts. Tighten firmly.

Engineered Floor Bracing Frame Assembly Instructions - Model LRF30CA Completed Engineered Floor Bracing Frame Photos



Left side of completed base frame.



Right side of completed base frame.

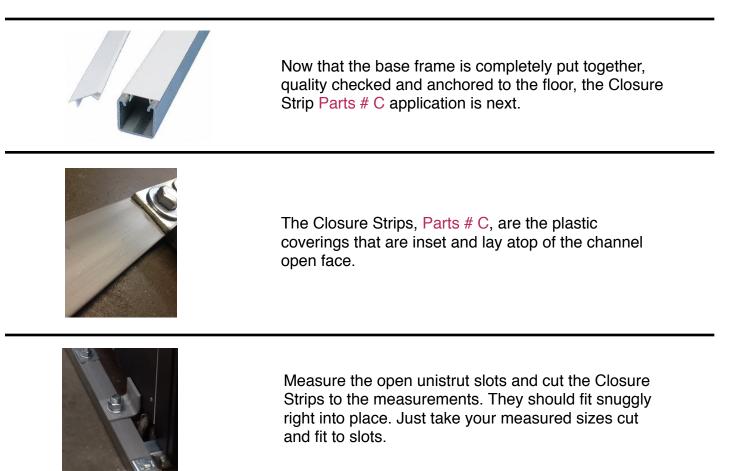


Completed structure base frame.

Measure for Closure Strips



Engineered Floor Bracing Frame Assembly Instructions - Model LRF30CA End Cap and Closure Strip Application



Now that the Closure Strips are in place, you need to place the end caps on the strut. There are (4) end caps, Parts # M. There are 2 to be placed on the rear of the base bracket and 2 to be placed on the front of the base bracket. Put into place and tap lightly unit inset.



Engineered Floor Bracing Frame Assembly Instructions - Model LRF30CA Attachment of Ratchet Guide and Ratchet Assembly



With the Base Bracket ready to have the unit put into place, find the middle of the top of the unit being secured on the left and right side.





Now that you know where the center of the unit is, prepare the top and side areas with alcohol as you will then place the Corner Ratchet Strap Guide Brackets, Parts # N, cupping the top and side snuggly. Be sure to place the "C" on the bracket on the side, not the top.



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The final step is the Ratchet assembly, Parts # O. You want to take Parts # O and attach the triangular quick links located on the ends and attach to the eye bolts on the base bracket.

Take the ratchet and place atop the unit with the ratchet strap fitting through the "C" which should be on the upper side of the unit being secured, (same with the other side, strap only). Make sure your strapping is straight and not twisted. Insert the strapping into the ratchet and move the handle up and down until the strap is snug. DO NOT OVER-TIGHTEN. THE RATCHET IS STRONG ENOUGH TO CRUSH THE ITEM IF CRANKED TO MUCH.



If it is 1 unit or if its 2 units side by side, make adjustments to implement flawless execution of installations and ease of operation. Finished product should look as above.

LRF30CA Installation Instructions