PRODUCT SPECIFICATION DRAWING
QUICK STRAP® #QS-50
Seismic support for water heaters

City of Portland
Reviewed for code compliance
Date: 08/11/23
Project #: 22-200130-DFS-01-CO

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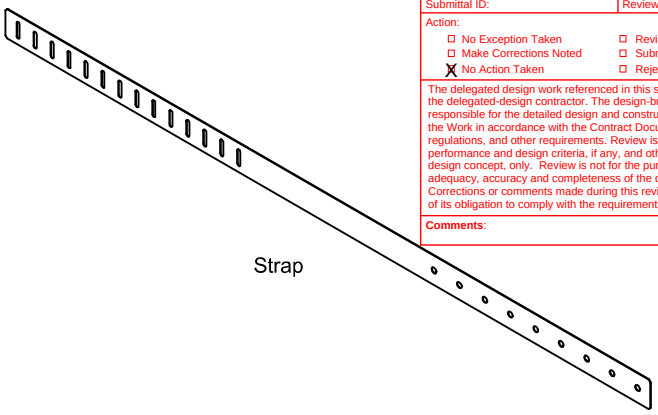
Delegated-Design Submittal Review
LSW Architects, P.C.

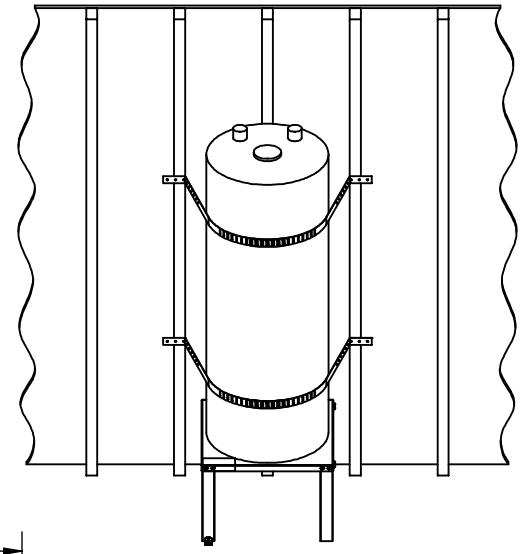
Project Name: TVC LLOYDS	Received On: 7/14/23
LSW Project Number: 2022-0002	Reviewed On: 07/14/2023
Submittal ID:	Reviewed By: Carrie McIntyre

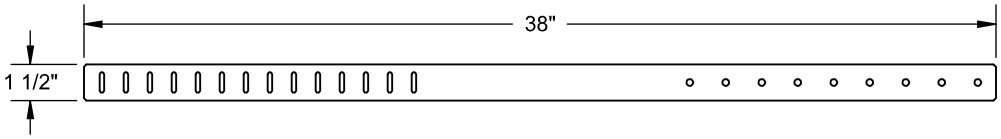
Action:
- ☐ No Exception Taken
- ☐ Make Corrections Noted
- ☒ No Action Taken
- ☐ Revise and Resubmit
- ☐ Submit Specified Item
- ☐ Rejected

The delegated design work referenced in this submittal is the responsibility of the delegated-design contractor. The design-build contractor is fully responsible for the detailed design and construction and its coordination with the Work in accordance with the Contract Documents and all applicable rules, regulations, and other requirements. Review is for conformance with specified performance and design criteria, if any, and otherwise for conformance with the design concept, only. Review is not for the purpose of determining the adequacy, accuracy and completeness of the design or design services. Corrections or comments made during this review do not relieve the Contractor of its obligation to comply with the requirements of the Contract Documents.

Comments:







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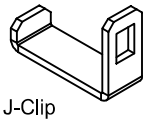
J-Clip

Carriage Bolt, #3/8-16 x 3.0" long

3/8" Hex Nut

Lag Bolt, #1/4-10 x 2-1/2" Long

The QUICK STRAP® #QS-50 is a seismic/earthquake support system for water heaters up to 80 U.S. gallons in size. The system includes: (4) Straps, (4) Lag Bolts, (4) J-Clips, (2) 3/8" Carriage Bolts and (2) 3/8" Hex Nuts. The Quick Link® system allows for full adjustment from the front side of the water heater.

STATE OF CALIFORNIA
ACCEPTABLE METHOD
No. 97-010

complies with IPC
UPC®

Product Information:

- Material: Strap, 24 gage CRS, galvanized
- California Division State Architect (DSA) approval #97-010
- UPC / IPC / IAPMO listed

Product Submittal	
Job Name:	
Date:	
Part Number:	Qty:
Architect / Owner:	
Contractor:	
Notes:	

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spec_QS-50_RevK

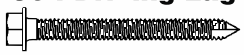
City of Portland
Reviewed for code compliance
Date: 03/17/23
Project #: 22-200130-DFS-01-CO

HOLDRITE®

QUICK STRAP®

WATER HEATER RESTRAINT BRACKETS

Self-Drilling Lag



It is not necessary to pre-drill a pilot hole for the lag bolt.

INSTALLATION INSTRUCTIONS:

*Caution:
Wall coverings may conceal electrical wiring or pipes, which may cause damage or serious injury if punctured by drills or fasteners. Unless you are confident that there will be no interference from such obstacles, we recommend that you seek qualified help when installing this product.

INSTALLER: WEAR GLOVES & PROTECTIVE EYEWEAR WHEN INSTALLING THIS PRODUCT.

**Caution: Strap coil is under tension.*

Box Contents

BOX CONTENTS:
4 - Straps
4 - J-Clips
4 - Lag bolts 1/4" x 2 1/2" Self-drilling with 1/4" washers
2 - 3/8" bolts, washers, nuts

TOOLS NEEDED:
- 3/8" socket or wrench for tightening at wall
- 9/16" wrench for tightening strap and J-Clips
  Optional: Drill with 1/8" drill bit

Check the water heater. If the water heater is not a zero clearance unit (as specified on the rating plate), see instructions inside box on how to build a spacer.

Step 1

Select location for water heater.

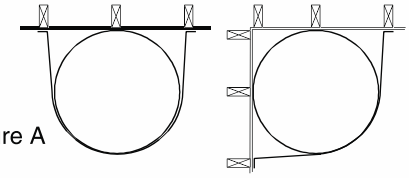
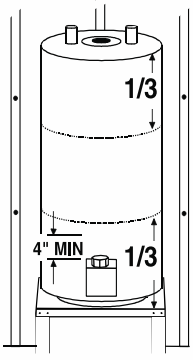


Figure A

The best place to locate your water heater is directly in front of a 2" x 4" wall stud. *See Figure A.*

Step 2

Figure B



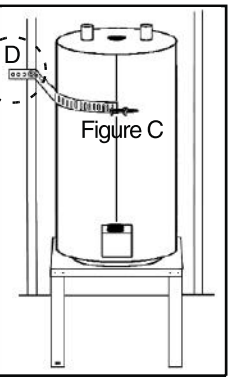
The straps must be installed in the upper and lower 1/3 of the water heater. The lower strap must be at least 4" above the water heater's controls. *See Figure B.*

Mark the wall studs on both sides of the water heater where you will install the straps. Drill 1/8" pilot holes if desired.

Step 3

Figure D

Figure C



Select one strap . Install one J-Clip per *Figure E* (Strap "A") Hold strap "A" so that the J-Clip is in the approximate center of the water heater. *See Figure C.* Select a mounting hole that best aligns with the pilot mark on the stud; secure the end of the strap to the stud with a 1/4" x 2 1/2" lag bolt and washer. *See Figure D.*

Step 4

Figure E

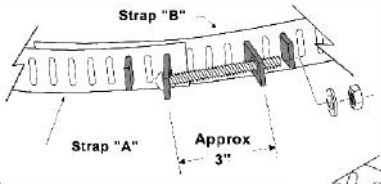
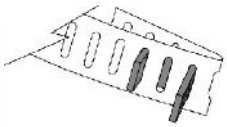


Figure G



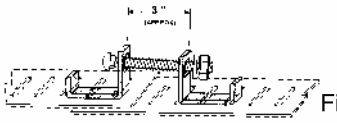


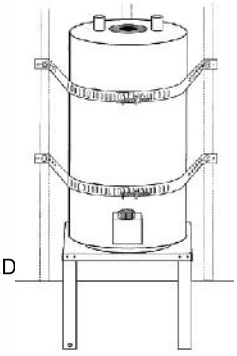
Figure F

Install strap "B" *(See Figure E)* on the opposite side of the heater; select a mounting hole which allows a few inches of strap "B" to pass behind Strap "A", and secure Strap "B" to the wall. Insert a J-Clip into the slots of Strap "B". The longer side of the J-Clip must be towards the end of the strap, so that it is approximately 3" from the J-Clip on Strap "A", when the two J-Clips are pulled together snugly. *See Figure F.* Hint: If Strap "A" is too long, simply re-position the J-Clip then bend the strap behind the J-Clip as shown in *Figure G.*

Secure the two J-Clips together with 3/8" carriage bolt, nut and washer, and tighten.

Step 5

Repeat the entire installation process for the second pair of straps using the same hole and slot positions as the first installation. If necessary, trim strap ends at the wall.

Installation Complete

DSA APPROVED