

PROBLEM: Log walls are *NOT* held tight long term, due to obsolete joinery methods.

The competitor's use of nails, screws, spring-less or spring only thru-bolts are obsolete fastening devices and may lead to gaps between the logs where air may penetrate the interior of the home.



Competitor's Log wall shown below being caulked.



COMPETITOR'S BANDAGE:

The competitor's customers are expected to fill the gaps between their logs with expensive and labor-intensive caulking and chinking on an *annual basis*.

TRUE NORTH'S SOLUTION:

Our new ratcheting LOG LOCK Compression system virtually eliminates log wall separation. Our True North homeowners are spared the high maintenance cost of caulking and chinking, leaving more time for *living-in* rather than *working-on* their log home. (see right)

New Log Lock^{*} Compression System

* Patent pending

ANOTHER INDUSTRY FIRST...

LOG LOCKS are installed in the centre of the log at approximately six foot intervals and two feet back from the corners. The average size log home will require approximately 40 LOG LOCKS depending on home design, to ensure the log walls remain tight. Competitor's thru-bolts installation time requires 2 days whereas True North's LOG LOCK cuts installation time to 2 hours. A True North customer benefits with major construction labor savings! See page 206, Question #6 for further details.

UP TO 2 INCHES OF AIRTIGHT LOG WALL COMPRESSION.

1 inch for a single storey log home and 2 inches for two storey log homes.

Step 1

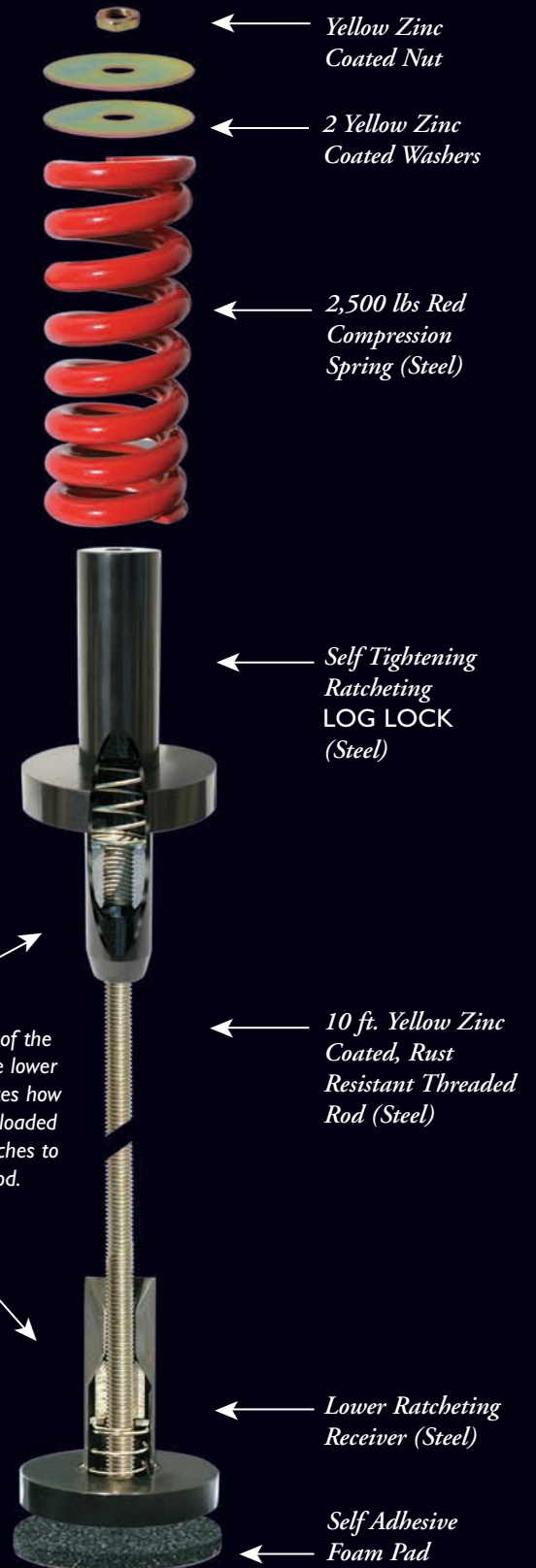
To begin installation, the first log is turned on its side. The lower ratcheting receiver and a foam pad are inserted into the factory pre-drilled recess in the bottom of the first log (see below). The first log is then turned back over, installed and attached to the foundation. All logs are then stacked to complete the log wall. (see page right)



The cutaway view of the LOG LOCK and the lower receiver demonstrates how the internal spring loaded jaws instantly attaches to the threaded rod.

"Our decision to use the new Log Lock system was one of our best. We were able to install all 33 Log Locks in just 2 hours. There was nothing so sweet as the sound and feel of each threaded rod sliding into the base and tightening into place. Well done."

- Marv Nolan, homeowner / self-builder, Ontario



Step 2

A 10 foot threaded rod is then inserted into the factory pre-drilled chase in the log wall. (see blue arrow to left)

Step 3

Once the threaded rod enters the Lower Ratcheting Receiver it is *instantly and permanently* locked into place, no wrenches required here. (see below left)

Step 4

The LOG LOCK, the red compression spring, two washers and a nut are installed. (shown above right) A wrench is used to tighten the nut and washers which compresses the spring. The spring comes into contact with the LOG LOCK forcing it to ratchet down the threaded rod. (demonstrated by green arrow)

Step 5

The LOG LOCK in turn applies pressure to bear on the top log until all of the horizontal joints in the log wall are compressed perfectly tight. (demonstrated by purple arrow)

The LOG LOCK automatically continues to self-tighten after initial installation. The competitor's thru-bolt assembly requires their customers to tighten and make adjustments annually.

A True North homeowner is spared this task.

A one inch step in the log wall (shown below) demonstrates the LOG LOCK compression system at work tightening a single storey log home.

TRUE NORTH'S NEWEST SECRET

The jaws hidden inside the LOG LOCK combined with the 2500 lb. compression spring are designed to permit the LOG LOCK to ONLY go downward one-way on the threaded rod. The LOG LOCK prevents logs from lifting, bowing or separating due to the naturally occurring shrinkage and settlement in log walls.



What is the advantage to a True North customer?

LOG LOCK MEANS

- NO AIR INFILTRATION
- TIGHT JOINTS IN LOG WALLS
- NO CAULKING OR CHINKING, EVER!
- ELIMINATES ADJUSTMENTS & MAINTENANCE
- LIGHTNING FAST INSTALLATION = SAVINGS

Check out the LOG LOCK movie detailing the installation at www.truenorthloghomes.com/loglock