

PROBLEM: Overcoming the esthetic and structural issues when the log home design requires angled corner applications. (i.e. turrets, or prow features.)

COMPETITOR'S BANDAGE:

Competitor's typically stick-frame angled corner applications and clad with siding, compromising the structural integrity and esthetic appearance.

Esthetically: Nails used to attach siding can rust and deteriorate.

Structurally: Log walls settle, stick frame walls do not, which may lead to air infiltration. The competitor's customer is required to regularly caulk and/ or chink the transitional joint between the logs walls and the stick-frame walls.

TRUE NORTH'S SOLUTION:

True North's exclusive KEYSPLINE and POST SLIDE technology overcomes all esthetic and structural concerns. This technology provides an airtight seal between a post and a log wall while accommodating all log wall settlement. Our square and penta-posts permit any log wall angles required in log home design.



Installation of KEYSPLINE in Penta-post shown above.

Key Spline*

Post Slide System

* Patent pending

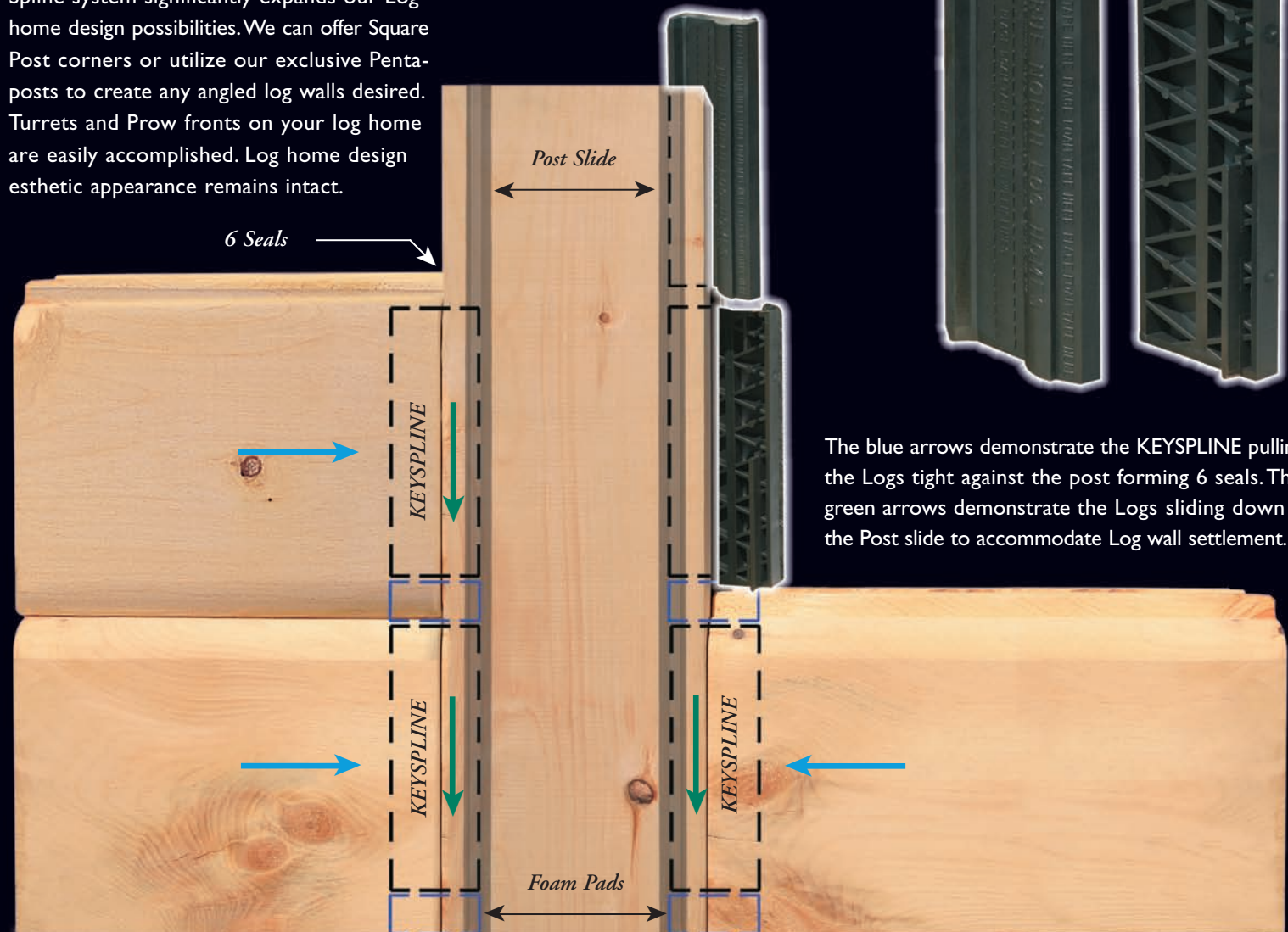
A Bay window wall configuration permits unique room design features i.e. breakfast nooks, hot tub rooms or turrets.



ANOTHER REVOLUTIONARY CONCEPT...

True North's ability to successfully join a Log wall system to a post has become one of its foremost technological achievements. Our Key Spline system significantly expands our Log home design possibilities. We can offer Square Post corners or utilize our exclusive Penta-posts to create any angled log walls desired. Turrets and Prow fronts on your log home are easily accomplished. Log home design esthetic appearance remains intact.

KEYSPLINE



The blue arrows demonstrate the KEYSPLINE pulling the Logs tight against the post forming 6 seals. The green arrows demonstrate the Logs sliding down in the Post slide to accommodate Log wall settlement.

(Fig. 1) A "Post Slide" has been factory installed in the channel of the post. Four rows of foam tape are applied vertically on the post from top to bottom.

Log 1 is installed against the post (brown arrow).

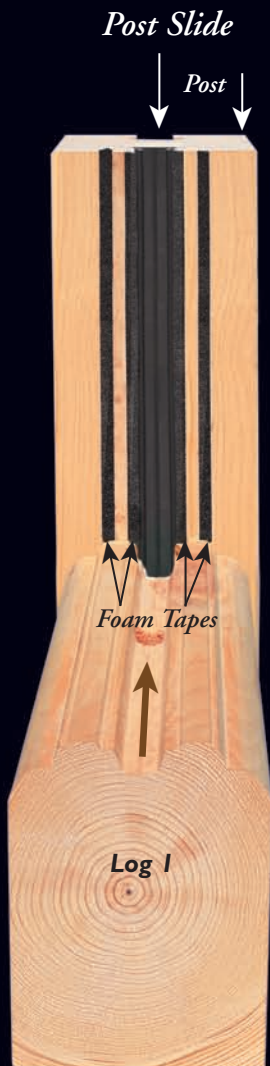


Fig. 1

Half KEYSPLINE

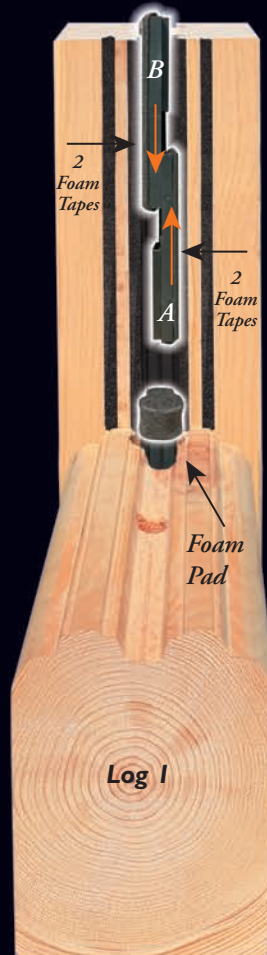


Fig. 2

(Fig. 2) A specially designed foam pad is inserted into the Post Slide in the post and hole of Log 1. Two rows of foam tape are applied to each half of the KEYSPLINE.

The first half KEYSPLINE "A" with a lower tab is inserted into the Post Slide in the post. The second half KEYSPLINE "B" with the upper tab is inserted into the Post Slide above KEYSPLINE "A".

(Fig. 2) The half KEYSPLINES slide together (orange arrows) and interlock to form one complete KEYSPLINE "C".

(Fig. 3) KEYSPLINE "C" and the foam pad are then pushed downward (yellow arrow) along the Post Slide in the post and into the hole of Log 1. The foam pad completely seals between each Keyspline.

Complete KEYSPLINE

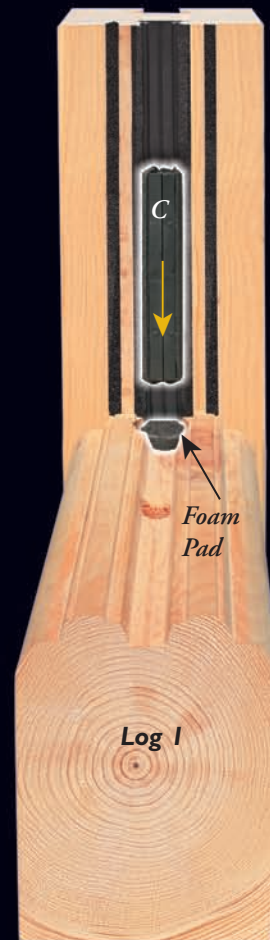


Fig. 3

10 Inch Spike



Fig. 4

(Fig.4) A 10" spike is then driven into the top end of the KEYSPLINE (white arrow).

(Fig. 5) The spike separates the two halves of the KEYSPLINE in the hole of Log 1 (blue arrows). This action secures and pulls Log 1 tight (purple arrow) forming 8 seals while still permitting the logs to settle against the post.

(Fig. 6) Once the 4 rows of foam tape and 2 rows of butyl tape have been applied to the top of Log 1, Log 2 is then installed (green arrow) and the sequence continues.

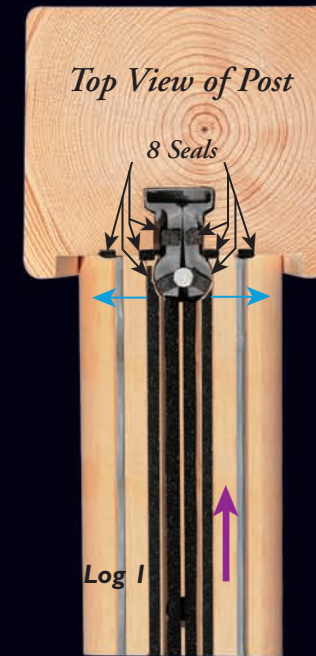


Fig. 5

Fig. 6



What is the advantage to a True North customer?

KEYSPLINE MEANS

- LOG HOME DESIGN "FREEDOM"
- AIRTIGHT SQUARE AND ANGLED POST CORNERS
- ESTHETIC AND STRUCTURAL ISSUES RESOLVED
- LOG HOME ESTHETICS REMAIN INTACT AS STICK-FRAMING IS NOT REQUIRED