

V-RETAINING CLIP INSTALLATION INSTRUCTION:

V-clips (often called element retaining clips) are small but critical components used to secure heating elements inside the grooves of kiln insulation (firebrick).

What they do:

When required hold the coiled heating element firmly in place inside the brick groove. Prevent the element if it is sagging, popping out, or deforming during heating cycles. Maintain correct spacing for even heat distribution and element longevity.

Typical characteristics:

Made from 1350 C (2462 F) wire.
Shaped like a “V” or hairpin for spring tension.
Designed to push into the soft brick, anchoring the element without damaging it.

Sizes & compatibility:

On request can be supplied in different lengths and thicknesses depending on:
Groove depth.
Element diameter.
Kiln temperature rating (e.g., 1100°C vs 1300°C or 1650 C systems)

Installation basics:

Insert the clip over the heating element coil in correct place (usually every 10 cm (4”)) and in correct position.
Using pliers, push first long end for fixing its position and then second end into the groove walls at a slight angle.
Insert the clip by pliers deep enough to hold the element firmly, but do not force it excessively.
Ensure the clip sits flush or slightly recessed below the groove surface and the heating element should be held by only one turn.

Important cautions:

Do not push against the element itself with the pliers—this can deform or crack it.

Avoid over-driving the clip, as this can:

Damage the soft firebrick.

Reduce holding strength over time.

The element should be secure but not compressed.

Practical check after installation:

The element should sit neatly in the groove.

It should not spring out when lightly pressed.

Clips should not protrude into the chamber.

Common issues:

Missing clips → elements bulge out of grooves.

Incorrect material → clips oxidize and fail at high temperature.

Loose installation → poor retention and uneven heating.

Please find some useful pictures below:

