



POST OF 21/09/2026

Repair or reline? The three findings

A targeted repair is usually the more economical solution: it keeps what still holds and replaces only what is worn. With three findings, however, it only lasts until the next weak spot next to it gives way.

The deciding question is whether only the surface of the lining is affected or its load-bearing structure: residual wall thickness, insulation and anchors. If the structure is affected, the lining is rebuilt, from the insulation and anchors to the finished opening.

Finding and decision

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| ☐ Residual wall thickness used up across the surface | Relining: any repair only lasts until the next thin spot next to it |
| ☐ Shell temperature rising under unchanged operation | Insulation has given way, the damage sits behind the wear layer: relining |
| ☐ Metal has penetrated to the anchors | Load-bearing structure affected, not just the surface: relining |
| ☐ Local wear with sufficient residual wall thickness | targeted repair of the affected zone |
| ☐ Isolated cracks without discolouration | monitor, photograph, date; repair if they change |
| ☐ Spalling at the charging opening or door | partial repair with a tougher material, clarify the operational cause |



Finding: the lining is cracked right down to the steel shell



Rebuild: anchors in a grid on a new insulation layer

Common mistakes

- A new wear layer over failing insulation: the surface looks new, while the damage keeps working behind it.
- Residual wall thickness measured only at the visibly thinnest spot instead of in a grid across the surface.
- Leaving the decision until the shutdown: by then there is no material, time or crew for the larger scope.

PRACTICAL NOTE

Measure residual wall thickness and shell temperature regularly at fixed points. Then the question "repair or reline?" is already answered by the shutdown, and material and crew are ready.

Questions about your furnace?

We assess lining, zones and condition — with a reply within 24 hours on working days.

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