

SKAMOL PANELS

POLICY FOR SKAMOLEX REPLACEMENT REFRACTORY PANELS

OPERATION

During the natural operation of factory-built fireplaces, the replacement refractory panels will experience heating and cooling. Sometimes minor cracks can occur. Hairline cracks may occur after repeated firings. When these fine cracks occur, the homeowner can continue to enjoy the fireplace. All factory-built fireplaces have a metal structure behind the refractory panels; therefore, even if the cracks get larger, the fireplace will still operate safely.

WHEN TO REPLACE REFRACTORY PANELS

One should consider replacing the refractory panels of the firebox when:

1. If the cracks is greater than $\frac{1}{8}$ inch (thickness of a nickel) or
2. When the crack is greater than $\frac{1}{4}$ inch deep or
3. When the surface of the refractory panel has eroded more than $\frac{1}{4}$ " from the original surface or
4. When it starts to crumble and fall apart in chunks. A qualified professional familiar with SKAMOLEX product and the replacement procedure is required to complete the replacement of the refractory panels.

PREVENTION

To prevent the problem from happening in the first place, the homeowner should "condition" the refractory in a new fireplace by building relatively small fires for the first few burns and then gradually working up to larger fires. When adding wood to the fire, one should use caution not to throw logs into the firebox, which may hit and damage the back refractory. In almost all cases, the back refractory shows the most signs of wear and tear because it takes the most abuse from heat and log impact.

CONCLUSION

SKAMOLEX replacement refractory panels are highly engineered products. Small cracks are possible and if they appear, this will not affect the safety and operation of the fireplace. Consider replacing the refractory when large cracks are present, pieces of refractory start to break off or if you wish to change refractory for aesthetic reasons.

RESPONSIBILITY

Skamol is not responsible for any loss or damage of any kind to SKAMOLEX replacement refractory panels during the installation or after installation, during normal operating conditions of the fireplace.

Last updated 2016-06-01

Skamol A/S

Østergade 58-60
DK-7900 Nykøbing Mors
Tel. +45 9772 1533
Fax: +45 9772 4975
insulation@skamol.dk
www.skamol.dk
CVR No. 4133 3715



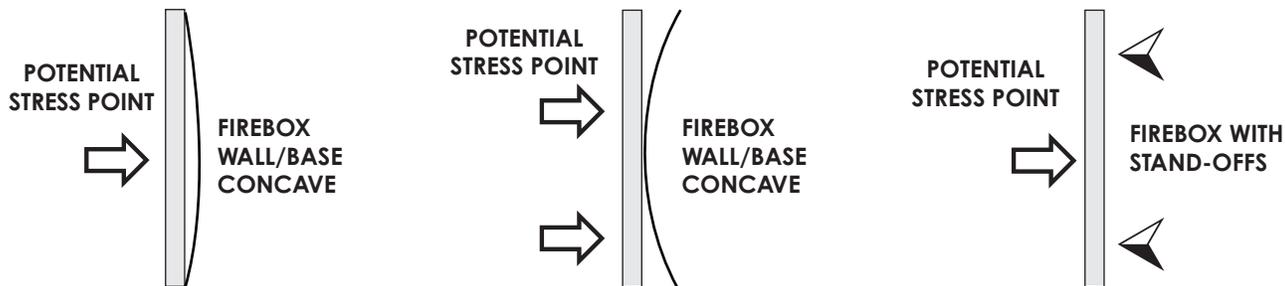
SKAMOL PANELS

SKAMOLEX REPLACEMENT PANELS - INSTALLATION TIPS

Before installing the refractory panels, inspect the firebox to ensure that all internal mounting surfaces are flat. Our panels cannot be installed when the mounting surfaces are concave, convex or have any type of internal stand-offs, otherwise this will introduce future stress cracks.

Skamol A/S

Østergade 58-60
 DK-7900 Nykøbing Mors
 Tel. +45 9772 1533
 Fax: +45 9772 4975
 insulation@skamol.dk
 www.skamol.dk
 CVR No. 4133 3715



- Do not use screws or adhesive to fasten panels in place, use 'Z' clips, located at top of the panel. Refractory panels must be allowed to expand and contract, due to their expansion. See below.

IMPORTANT NOTE:

Panels will expand and contract as temperatures inside the fireplace increase or decrease. It is therefore important to incorporate a necessary allotment when installing new panels.

The installation must take place in a way that allows refractory panels to freely expand and contract!

Diagram below describes panel expansion from ambient temperature 70 °F to combustion temperatures reaching 1600 °F.

At 1600 °F panels will expand 1 - 1.2%.

A rule of thumb when installing Skamolex VIP-900 replacement panels:

Inside Dimension x 0.985 = panel dimension
 (example: 30" ID = 30 x .985 = 29.55" panel size)

By applying this simple rule, you will allow up to 1.5% expansion ensuring the allotment of movement as well as adding a safety factor!

THERMAL EXPANSION OF PANELS

