ABOUT US - The Olympia Story

Olympia Chimney Supply has over 25 years of venting background and experience. At Olympia we are committed to advocating and promoting the safe venting of home heating appliances. We work closely with national safety institutions such as the Chimney Safety Institute of America (CSIA). Our affiliations with industry organizations such as the National Chimney Sweep Guild (NCSG) and the Hearth, Patio and Barbeque Association (HPBA) keep us in the forefront of meeting the venting challenges of modern heating appliances.

UL LISTED

The Olympia commitment to a quality product starts with innovative design and engineering. We continue this commitment by working with the world-class testing and listing agency, Underwriters Laboratories (UL). UL not only tests our products to its high safety standards, but in addition their factory inspections ensure that each system produced continues to measure up to this high standard. Our quality is also evident from the raw materials we use - only prime stainless steel from the best steel mills.

MADE IN USA SCRANTON, PA

Olympia calls home what we like to call "the heart of industrial America", Scranton, Pennsylvania. Scranton is home to steamtown locomotives, coal mining, iron ore, and a legacy of hardworking Americans. The Olympia Family takes what we do to heart and knows that your family is relying on us to deliver a safe, quality product.

Manufactured by
OLYMPIA CHIMNEY SUPPLY Inc.
"Your Partner in the Business"

DEALER INFO

FAQ FREQUENTLY ASKED QUESTIONS

Why is my chimney breaking down?

The primary culprit in chimney breakdown is the acidic moisture that comes from condensed flue gases. This acidic moisture attacks the chimney from the inside.

That is why a chimney may look good on the outside, but the inside can be a totally different story! Years of normal use with hot and cold cycles and seasonal weather conditions all take their toll on a chimney.

Damaged flue: Notice the moisture and the missing piece of flue tile.

Where does the moisture come from?

Did you know that for every cubic foot of gas burned, two cubic feet of water vapor is created? That is a lot of water! How can this water vapor affect your chimney?

Water vapor always travels up your chimney - it is only when flue gases drop to 120°F that condensation begins. When water vapor condenses, rain clouds form and it literally rains in your chimney! Countless drops of acidic moisture soak the flue.

This is more of a problem now then it was in the past due to modern, high-efficiency furnaces. High-efficiency furnaces, as their name indicates, extract more heat from a given amount of fuel than conventional furnaces, and less heat is lost up the chimney.

However, since less heat is sent up the chimney, the temperature in the flue is often below 120°F. The acidic "rain" happens frequently, and the flue seldom has a chance to dry out. Herein lies the side effect of high-efficiency furnaces: excessive acidic moisture in the flue. In turn, this acidic moisture wreaks havoc on terra-cotta flues and masonry.

This crack may be small, but it could open as wide as 1/4 inch when the flue is overheated.

What is the big deal with a few cracked flues?

It happens thousands of times each year. Damaged chimneys equal disaster. Carbon monoxide quietly leaks unobserved through cracks in the flue lining and into the home. Even small amounts can make you and your family sick. The risk of a chimney fire turning into a house fire is another serious risk. There are two ways that a chimney fire can ignite your home:

1) A chimney fire is like a huge torch, and the flames can escape through cracks in the flue tile and then through cracked mortar in the surrounding brick, and directly set your house on fire.

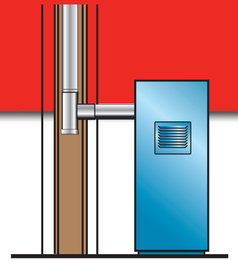
2) Chimney fires can rage at temperatures upwards of 2000 degrees. This extreme heat can bring structural materials surrounding the chimney to a flash point, and just by heat alone, can ignite materials in your house.

A few cracked flue tiles is serious business!

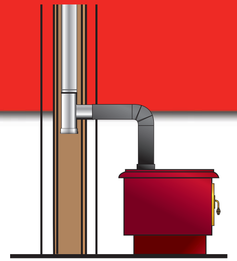
A crack like this can allow deadly gases to leak into the home, and can open the way for a chimney fire to turn into a house fire

RHINO RIGID™ RELINING SYSTEM

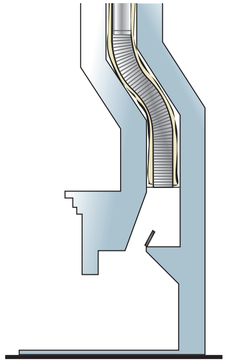
the solution for every chimney



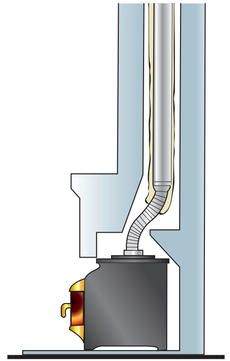
FURNACES AND WATER HEATERS



WOOD STOVES AND PELLET STOVES



FIREPLACES
Rhino Rigid™ combined with a short section of flexible pipe through any offset is an effective solution for fireplace relining.



FIREPLACE INSERTS
Rhino Rigid™ combined with a short section of flexible pipe through any offset is an effective solution for fireplace insert venting. Wood and coal installations require insulation.

SMOOTHER STRONGER SAFER

RHINORIGID™

CHIMNEY LINING SYSTEM

THE PROBLEM: DANGEROUS CHIMNEYS

This chimney may look fine on the outside, but what about the inside?

Home Safety

Your chimney has a big responsibility. It carries toxic gas out of your home, and while doing its job, it must withstand constant attack by acid, creosote and extreme temperatures for years on end.

These conditions cause chimney damage and deterioration, and when that happens, your family's safety is in question.

With the real risks of carbon monoxide poisoning and chimney fires becoming house fires, venting is a serious responsibility.

Outside vs. Inside

Look at the picture on the left. Most people would not see anything wrong with this chimney.

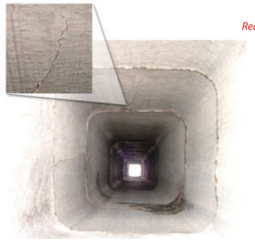
But there is more to the story. On the inside, the chimney could be seriously damaged, and not be up to safety regulations.

Old vs. New

Old-fashioned chimneys were not designed to vent modern heating appliances.

Besides, no chimney lasts forever.

Read more to find out about what is going on in your chimney.



FURNACE FLUE

FIREPLACE FLUE

Because of the hostile environment, the inside of both flues of this chimney have deteriorated. Notice the cracked flue tiles (left) and the deteriorated joints and/or misaligned flues (right). According to code, both flues should be relined.

FURNACE FLUE PROBLEMS

(gas or oil)

The Furnace's Flue

High-efficiency furnaces do not waste energy by sending heat up a chimney. As a result, temperatures in the flue drop low enough to produce condensation. This water combines with acids in the flue to create acidic moisture. Clay liners are particularly vulnerable to this acidic moisture assault.

- **Flaking plaster and/or peeling wallpaper**
- **Staining on wall surfaces due to moisture**
- **Excessive moisture in gas or oil flues**
- **Excessive soot in oil furnace flues**
- **Chimney structure deteriorating**
- **Eroded or missing clay liner**
- **Carbon monoxide leaking into home**
- **Joint between flue tiles not sealed**

Carbon Monoxide

Carbon monoxide (CO) is a colorless, odorless gas. Sometimes an early warning is flu-like symptoms, but CO can cause brain damage and death with no warning. A damaged furnace flue poses a real threat of carbon monoxide poisoning, because this gas can escape through the smallest crack. Also, a partial or complete collapse of the clay flue liner can block the flue, and quickly fill the house with deadly gas. Sadly this tragedy occurs in homes across the country every year.

Between 2001-2003, the CDC estimates that approximately 15,200 people were treated for unintentional non-fire carbon monoxide poisoning in emergency rooms and in 2005 there were an estimated 61,100 incidents reported, up 18% from 2003. 89% of the reported incidents took place in the home! (Source: NFPA)

(For demonstration purposes, illustrations show most possible symptoms of a damaged chimney. Your chimney may not have every symptom, and still need attention.)

FIREPLACE AND STOVE FLUE PROBLEMS

(wood, pellet, etc)

The Fireplace's Flue

This flue is servicing a fireplace, wood stove, pellet stove or other solid fuel appliance. It may have undergone a chimney fire, or have been connected to an improperly vented appliance, misused wood stove, or exposed to excessive moisture. A damaged flue brings the dangers of fire and carbon monoxide poisoning.

- **Cracked or missing tiles**
- **Eroded brick and mortar**
- **Excessive or glazed creosote.**
- **Joint between flue tiles not sealed**
- **Flue tiles not aligned properly**
- **Improper chimney draft**

Chimney Fires

Chimney fires happen when creosote builds up in the flue and ignites. These fires can rage at temperatures up to 2000 degrees and roar just inches away from your home. The intense heat alone can bring surrounding materials to the flash point, and ignite your home. Also, sparks from the fire can find their way through small cracks in the liner and quickly turn a chimney fire into a house fire.

Creosote is estimated to be involved in 14,720 (or 22%) home heating fires per year, and it is estimated to result in 4 deaths, 24 injuries and $33 million in property damage per year. (Source: NFPA)

THE SOLUTION: RHINO RIGID

CHIMNEY LINING SYSTEM

Rhino Rigid™ is the premium solution for the problems that plague most chimneys. Modern stainless steel walls provide an airtight and watertight barrier that seals in acidic gases and creosote.

Rhino Rigid™ is especially suited for applications that require a smooth inner surface liner. The smooth wall construction of Rhino Rigid™ permits 15-20% better flow of vented gases due to its reduced turbulence as compared to standard, corrugated chimney liners. In addition, the heavy 24 gauge thick stainless steel wall design is well suited to handle repeated cleanings year after year. This is one tough chimney liner - **Rhino tough!**

The Rhino Rigid chimney liner is made from 100% prime 304L, 316L or AL29-4C stainless steel. The stainless steel alloy used in your installation will be dependent on your type of heating appliance and its efficiency rating. Your installation professional will discuss these options with you. These modern stainless steel alloys are made to withstand the acidic moisture and extreme temperature fluctuations inside your chimney. Rhino Rigid™ will even contain a chimney fire!

(Actually, Underwriters Laboratories (UL) tested Rhino Rigid™, and has awarded its seal of approval. UL has declared that the Rhino Rigid™ system exceeds standards for chimney safety and can even withstand a 2100 degree chimney fire and still maintain structural integrity.)

Rhino Rigid™, and all EverGuard® liners, carry the exclusive Forever Warranty™, the first warranty in the business that is transferable to the next homeowner. No fine print in this warranty, just peace of mind.

(Certain installations require the use of insulation. Consult your professional to determine if your installation requires that the liner be insulated.)

RHINORIGID™

CHIMNEY LINING SYSTEM

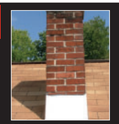
UL LISTED

OLYMPIA CHIMNEY'S FOREVER WARRANTY™

100% Stainless Steel

HOME SAFETY ANALYSIS

What's Happening in Your Home?



Disintegrating chimney

Cracked flue tile

Unlined Chimney

- ☐ **CONDENSATION LEAKAGE** The condensation has migrated through the chimney causing staining damage to home interior and chimney exterior
- ☐ **CHIMNEY STRUCTURE DISINTEGRATING** This has been caused by acidic moisture in the flue
- ☐ **IMPROPER CHIMNEY DRAFT** Caused by flues which are not properly sized for the heating appliance.
- ☐ **IMPROPER CLEARANCE** There is not enough clearance to the wood framing of the home.
- ☐ **CRACKED OR MISSING FLUE TILES** This can lead to carbon monoxide leakage and a higher risk of a home chimney fire.
- ☐ **UNLINED OR DAMAGED CHIMNEY STRUCTURE** This can lead to carbon monoxide leakage and a higher risk to the home from a chimney fire.
- ☐ **DOWN-DRAFTING OR SMOKING CHIMNEY** Caused by the unsteady draft of an improperly lined flue.