BUILDING THE WORLDS BEST FIRE

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Handy Items to Have

A Fireplace Screen A Kindling Ax (Be careful) Stove Gloves An Ash Rake

Think of your fuel load as three component parts:
The Base Course (can be unsplit if proper diameter)
The Middle Course (split)
The Top Courses (split finer)

A fireplace grate is not necessary with the above. A grate increases your critical burn rate allowing logs to burn faster than normal. Logs burn best in contact with hot firebrick in a bed of wood ashes.

Helpful Hints & Precautions before you start:

Make sure your fireplace and flue have been inspected for worthiness fire and are cleaned if found dirty (full of flammable cresosote), by a reputable Chimney Sweep. Make sure damper is open. If none is present have a top mount version retrofitted. The retrofit is a tremendous energy saver and assists in keeping out animals, noise and pollution. If your fireplace and flue are located on an outside wall or when the damper is open and you feel a flow of frigid air, pre-heat the flue with a sheet of lit newspaper. Hold high into the damper area, wearing a pair of stove gloves for protection. This will reverse the cold air plug present in the flue, creating a strong updraft with no smoke into your room. As soon as the above is completed light your newspaper on top of your fuel load. Approximately 3-4 hours later when you have

a nice bed of hardwood coals, use a fireplace rake to push the coals against the rear wall of the firebox. Next, lay your new logs, minimum of four, on top of the hot coals, lay the bottom two horizontally. The top two, a little shorter in length, place front to back approximately 3 inches apart creating a throat.

The greatest volume of smoke and particulate pollution from a wood fire occurs during a cold start up. Wood fires lit from the bottom, in a conventional manner, promote a dirty burn and waste a large amount of potential heat in the form of unburned gases.

A clean and efficient method for kindling a fire is a top burn. This almost forgotten ancient European technique places the largest wood at the bottom in a criss cross crib fashion. As each tier is laid, the criss crossing becomes smaller. Kindling and a small amount of paper are placed on top and lit.

When the top burn fire is lit, the flames are always above the fuel load. The smoke and flammable gas from each tier of wood will always travel up through the flame and burn, thereby reducing particulate pollution and unburned fuel.

A top kindling fire also produces large and less compacted glowing coals, providing excellent long-lasting radiant heat.

A top burn fire laid with seasoned hardwood to a height of eighteen to twenty-four inches will burn approximately four hours without adding additional wood. The fire will be mesmerizing as each tier slowly ignites and burns its way down.

TOP BURN RECIPE

Always start with dry, well-seasoned, split firewood and kindling. (Ideally seasoned firewood will have a 20% moisture content. The wood will show radial cracks at the ends and sound like bowling pins when beaten together.)

Bottom layer:

Three good sized pieces of split hardwood five to six inches thick, laid front to back.

Second layer:

Three slightly smaller pieces of split firewood three to five inches thick, laid side to side.

Third layer:

Four to five smaller pieces of split firewood two to three inches thick, laid front to back.

Keep alternating and decreasing in size with split hardwood until they are about one inch thick.

Now alternate two rows with split softwood (pine, spruce, etc.) until pencil thick. Place a small piece of newspaper on top and light.

This article is intended to help your customers understand and benefit from the knowledge chimney professionals offer.