



The Mulvaney Pipeline

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MECHANICAL, INC.
Mechanical Contractors
July-September 2017



BEST PLANTS FOR AIR PURIFICATION

If you are looking for a way to start out small to purify the air circulating in your home or office, incorporating indoor plants could be the solution. According to NASA's clean air study, houseplants can absorb harmful toxins from the air especially in enclosed areas with little air flow. They recommend two or three plants in 8-10 inch pots for every 100 square feet. It is even more beneficial when you include a variety of plants in a room as each plant removes different chemicals. **Not sure what plants would be best for your home or office? Here are NASA's top ten picks for air purifying plants:**

1. **Chrysanthemums** - Mum's are ranked the highest for air purification as they are the most efficient at removing all common toxins such as formaldehyde, xylene, benzene and ammonia. Keep in mind mum's can be toxic to both dogs and cats.
2. **Golden Pothos** - Considered just as effective as mum's in removing toxins such as toluene and carbon monoxide and more. They are very easy to care for. Also toxic for dogs and cats.
3. **Peace Lilies** - This beautiful blooming plant removes several toxins from the air including trichloroethylene. They are not recommended for homes with children or animals.
4. **Spider Plant** - Also known as air plants. These grow quickly and require little maintenance. They eliminate formaldehyde and xylene from the air and are pet friendly.
5. **Dracaenas** - This plant is perfect for people who are forgetful as it needs little water, in fact too much water will be harmful to it. It removes all of the toxins from the air but is harmful to pets.
6. **Areca Palms** - Although they thrive better outdoors, if this plant is placed in a sunny spot and fed a lot of water it will do just fine indoors. It is non-toxic making it a good fit for pet owners and it eliminates many chemicals from the air.
7. **Bamboo Palms** - This toxin eliminating plant can be quite particular on the way it must be cared for making it hard to keep alive. If you have a green thumb this might be the choice for you as they are pet safe and remove chloroform among many other toxins from the air.
8. **English Ivy** - Known mostly for thriving outside, it can be brought inside to help remove toxins. While it is easy to take care of it can be toxic to animals and humans.
9. **Rubber Plants** - With roots growing upward around the plant's trunk, rubber plants can be a statement piece for your home or office. Although they are beautiful they are toxic to cats and dogs.
10. **Chinese Evergreen** - These evergreens are toxic to dogs and require moderate watering and high humidity making them not the perfect fit for all but they are still extremely efficient in removing benzene, carbon monoxide, formaldehyde, trichloroethylene and more.

What Causes Mold to Grow? Best Tactics for Preventing it.

Besides spills or leaks, the liquid water in buildings which mold can use comes from gas-phase water molecules encountering cold surfaces and then condensing into liquid water. The culprit here is the cold surface, not the air. In poorly insulated buildings, the dew point at which condensation forms is easily reached. This means that humidifying your indoor air to healthy levels of 40% to 60% will not lead to mold growth unless the building shell or other materials such as cold water pipes are not properly insulated. HVAC systems are notorious for amplifying fungal growth and distributing microorganisms, and they are an excellent source of water through condensation (during the latent cooling process), water droplets and wet insulation material. Limited visual access means that often HVAC systems are ignored until there is an outbreak of building associated illness. The solution to this problem is to prevent water leaks and condensation through proper insulation - not by creating a desert-like atmosphere.

Did you know.....



- A TI-83 calculator has six times more processing power than the computer that landed Apollo 11 on the moon.
- Humans shed 40 pounds of skin in their lifetime, completely replacing their outer skin every month.
- The population of Ireland is still 2 million less than it was before the potato famine, 160 years ago.
- A mosquito has 47 teeth.
- A mouse can fit through a hole the size of a ballpoint pen.
- More germs are transferred shaking hands than kissing
- During your lifetime, you will produce enough saliva to fill two swimming pools
- Cherophobia is the fear of fun
- There are no bridges over the Amazon River
- McDonalds calls frequent buyers of their food "heavy users."
- Chewing gum while you cut an onion will help keep you from crying.
- Guinness Book of Records holds the record for being the book most often stolen from Public Libraries.
- Celery has negative calories! It takes more calories to eat a piece of celery than the celery has in it to begin with.
- Of all the words in the English language, the word "set" has the most definitions. The word "run" comes in close second.
- A "jiffy" is the scientific name for 1/100th of a second.
- There are 5 temples in Kyoto, Japan that have blood stained ceilings. The ceilings are made from the floorboards of a castle where warriors killed themselves after a long hold-off against an army. To this day, you can still see the outlines and footprints.
- Honey does not spoil. You could feasibly eat 3000 year old honey
- Dead people can get goose bumps

Before laboring over the answers, be sure the questions are worthwhile...

Death - row inmates in Japan are not told when they will be executed

Like the rest of Japan, its prisons are strikingly clean, safe and orderly - and as quiet as retirement homes. Yet reformers who have surveyed some of the world's worst prisons say that Japan's jails rank among the cruelest - for the psychological toll they take. A death-row prisoner is informed that his time is up on the morning of the execution. Often without so much as a farewell phone call to his family, he is then hanged.

NEW TECHNIQUES MEAN THAT WOOD CAN NOW BE USED FOR MUCH TALLER BUILDINGS

The five story pagoda of the Temple of the Flourishing Law in the Nara prefecture of Japan is one of the world's oldest wooden buildings. It has withstood wind, rain, fire and earthquakes for 1,400 years. In an age of steel and concrete, the pagoda is a reminder of wood's long history as a construction material. Some architects have started designing wooden skyscrapers, like the proposed Tratoppen ("the treetop" illustrated opposite), a 40-floor residential tower on the drawing-board in Stockholm. A wooden building is about a quarter of the weight of an equivalent reinforced concrete structure. Timber is a sustainable material and natural "sink" for CO² as trees lock in carbon from the atmosphere. In recent years there have been big advances in "engineered" wood, such as cross-laminated timber made from layers of timber sections glued together with their grains at right angles to one another. Although a cubic meter of concrete is cheaper than an equivalent volume of timber, wooden buildings can be built faster. Plus, the appeal of wood, both visually and as a sustainable material will make it commercially attractive to property developers.



WHAT THE HECK IS IT? WIN A MULVANEY MECHANICAL LEATHER JACKET



When e-mailing your entry, please write "Newsletter Contest" in the subject line to avoid our SPAM filter.

Send to: MMI@mulvaneyinc.com

If multiple correct answers are received,



Last Quarter's Puzzle:

A marking gauge, is used in woodworking and metalworking to mark out lines for cutting or other operations. The purpose of the gauge is to scribe a line parallel to a reference edge or surface. It is used in joinery and sheet metal operations.

WE HAD ONE CORRECT ANSWER THIS TIME!

ERNEST BADILLO, GOODFELLOW REAL ESTATE

WHAT'S GOIN' ON?

Oct. 18-20	IFMA Conference & Expo	Houston, TX
Oct. 26-28	BOMA Executives Leadership Conf.	Washington, D.C.
Nov. 8-10	MCAA Construction Technology	Austin, TX
Jan. 20-24	ASHRAE Winter Conference	Chicago, IL

HAPPY LABOR DAY! (Sept. 4th)

Labor Day is an annual holiday to celebrate the achievements of workers. Labor Day has its origins in the labor union movement, specifically the eight-hour day movement, which advocated eight hours for work, eight hours for recreation, and eight hours for rest.

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