

"INVENT! IMITATE! or INNOVATE!"

10 x 10 Trends

Alex Glenn and Dan Wildenhaus

Quick tour – Winning Assets Leading to Dependable Outcomes

- Tools
- IAQ tools
- Materials
- Water tools
- Energy tools
- NetZero Project



Who's worked with this?

why does indoor air quality matter?

People are increasingly concerned about mold, radon, carbon monoxide, and toxic chemicals in their homes. Poor indoor air quality can lead to eye irritation, headaches, allergies, respiratory problems such as asthma, and other serious health problems.

EPA studies show that levels of many indoor air pollutants can be two to five times higher than outdoor levels. And since most people spend close to 90% of their time indoors, keeping indoor pollution levels as low as possible is the right thing to do for you and your family.

How can building practices help improve indoor air quality?

Builders can use a variety of construction practices and technologies to decrease the risk of poor indoor air quality, including careful selection and installation of building materials; heating, ventilating, and airconditioning (HVAC) systems; combustionventing systems; and moisture control techniques.

It's not easy for homebuyers to keep track of all the preferred construction details that lead to improved indoor air quality. That's why EPA created the Indoor airPLUS label. Ask for it in your next new home.







Only ENERGY STAR Certified Homes are eligible to earn the Indoor airPLUS label.

Office of Air and Radiation EPA 402/F-14/001 | February 2014

www.epa.gov/indoorairplus

Breathe Easy In Your NEW Indoor airPLUS Home

Designed and built for improved indoor air quality and energy efficiency.



All Indoor airPLUS qualified hornes also meet strict guidelines for energy afficiency set by ENEXCY STAR, the nationally-encognized symbol for energy afficiency.



Dan Wildenhaus

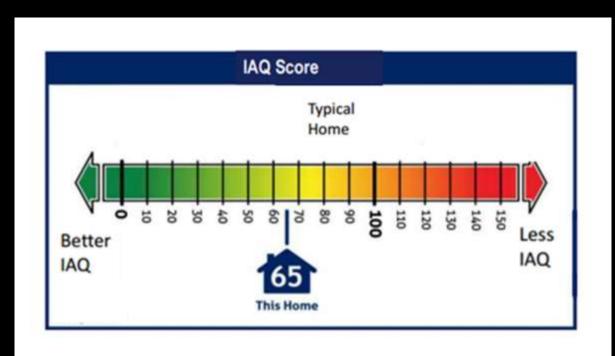
tacoma, WA 98403 September 11, 2017

Your Hayward Score



Very Poor Poor Fair Good Excellent

The future





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- 1

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Only with GREENGUARD Certified Products.





Designing a Space



Healthier Schools



New to GREENGUARD?



What else is out there?

SUMMARY MATRIX

THE 20 IMPE	ERATIVES OF THE LIVING PRODUCT	T CHALLENGE
PETAL	IMPERATIVE CERTIFICATION*	IMPERATIVE
PLACE		OI. RESPONSIBLE PLACE AND HABITAT IMPACTS
		02. HABITAT EXCHANGE
WATER	₩	03. NET POSITIVE WATER
ENERGY	₩	04. NET POSITIVE ENERGY
HEALTH & HAPPINESS	OCCUPE IMPERATIVE	05. NET POSITIVE MATERIAL HEALTH
		06. HUMAN THRIVING
MATERIALS	CORE IMPERATIVE	07. RED LIST
		08. LIVING ECONOMY SOURCING
	CORE IMPERATIVE	09. RESPONSIBLE INDUSTRY
	₩	10. NET POSITIVE CLIMATE
		11. NET POSITIVE WASTE
		12. PRODUCT FIT TO USE
		13. USEFUL LIFE DISPOSAL



Welcome to Pharos!

New! Try CompAIR: Pharos' Volatile Ingredients Calculator

Think You Know Everything There is to Know About Volatile Content? Think again.

- Multiple methods of measurement and reporting
- Exempt chemicals can still pose health hazards
- Varying amounts of product required for application

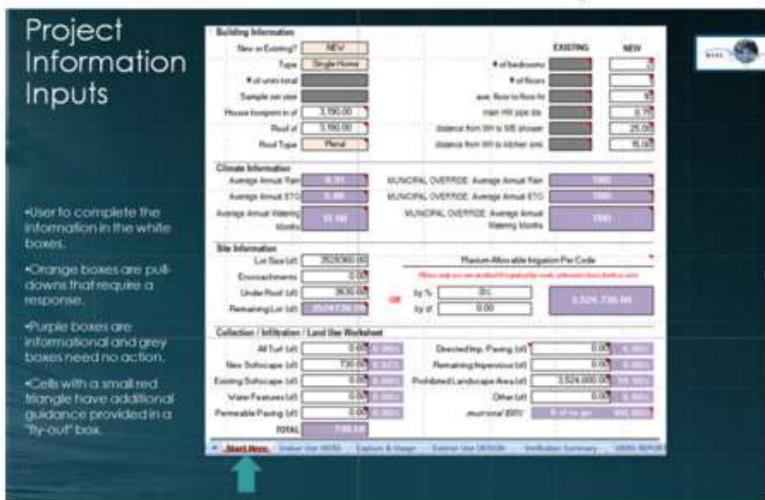
CompAIR is FREE to use and lets you:

- Measure and compare volatile ingredients in wet-applied products as installed
- · Create a library of wet-applied products to compare
- Measure volatile content avoided through product selection
- Save and edit your product library
- Export and share your results



The WERS Program - A New Focus on Water









Pearl's certification system groups the assets in your home into four categories. A home asset inventory will show how you score in each of the four categories.



Building Shell

300 possible points

The roof, walls, windows and foundation that create the difference between "outside" and "inside" your home.



Heating and Cooling

360 possible points

The furnaces, air conditioners, heat pumps, ductwork and other equipment that keeps your home the temperature you want it.



Baseload

240 possible points

The equipment that you use throughout the year, like water heaters, appliances, and electronics.



Home Management

300 possible points

Smart devices, information dashboards, and plans that help you maintain and improve your home.

http://zeroenergyproject.org/





Invent! Imitate! or Innovate!



HOME, SMART HOME

Cool gadgets, practicality drive trend in residential lifestyle technology







Believe It or Not!

A San Francisco startup 3D printed a whole house in 24 hours

It's no mansion, but it looks perfect for people who prefer tiny



Mariella Moon, @mariella_moon 03.07.17 in Home 34 Comments







Ikea and Apple team up on augmented reality home design app

The 'Ikea Place' app lets shoppers virtually test drive furniture









High quality liquid crystal lens

High transmission lenses with brighter 3D video image High-tech light-speed LCD shutter technology High quality stereoscopic 3D solution











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