



Universal
Design
Living
Laboratory®

Presenter: Mark Leder



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By The Numbers

Attributes

- 1.5 acre infill lot
- 5 bedrooms
- 3.5 baths

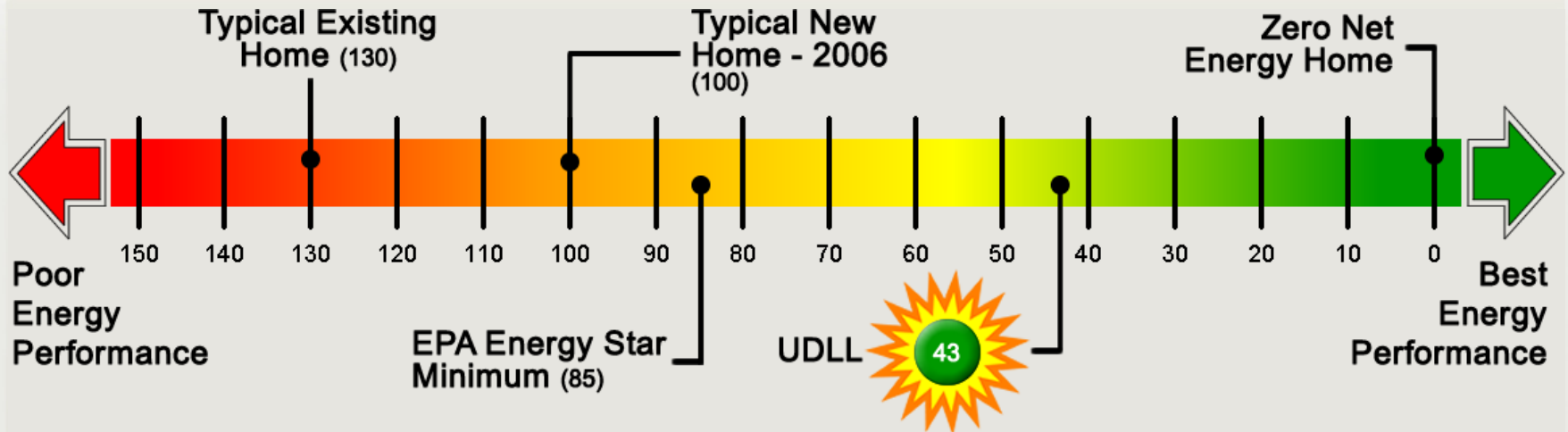
Conditioned Area

- Lower Level	3597 s/f
- First Floor	3597 s/f
- Open Clerestory	1243 s/f
TOTAL	8437 s/f



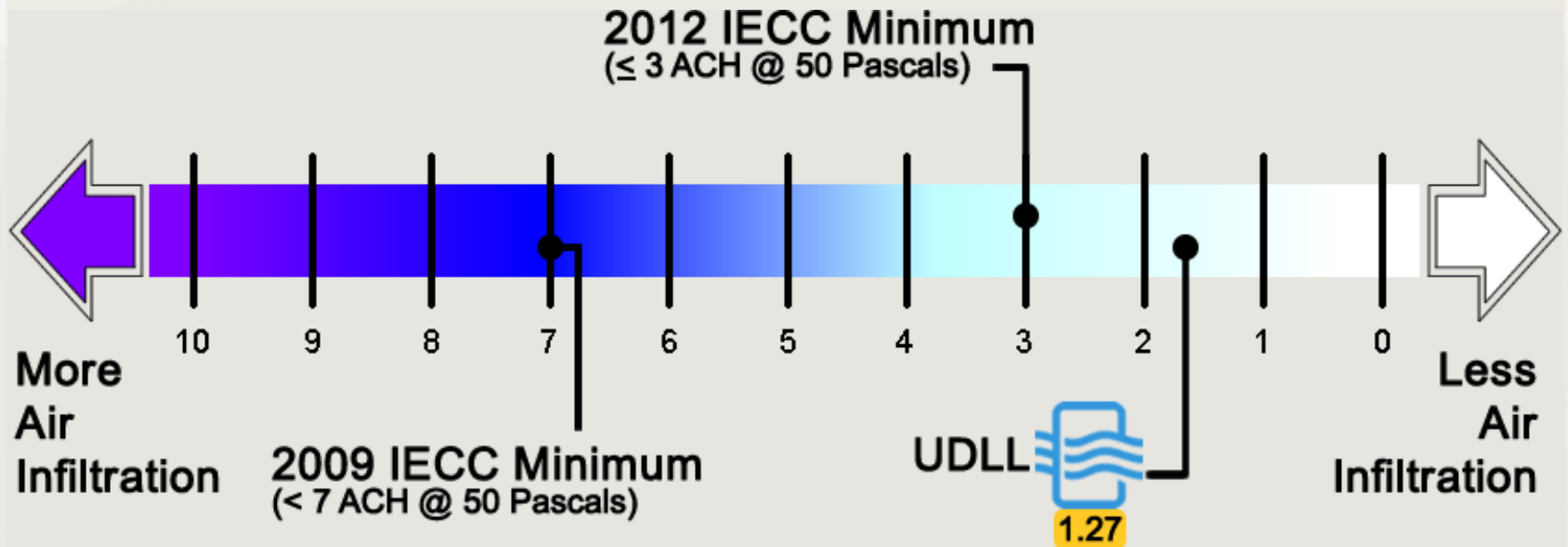
By The Numbers

HERS Index



By The Numbers

Air Infiltration - Climate Zone 5



Green Program Certification Achievements



Passive Solar Overhang Rightsizing

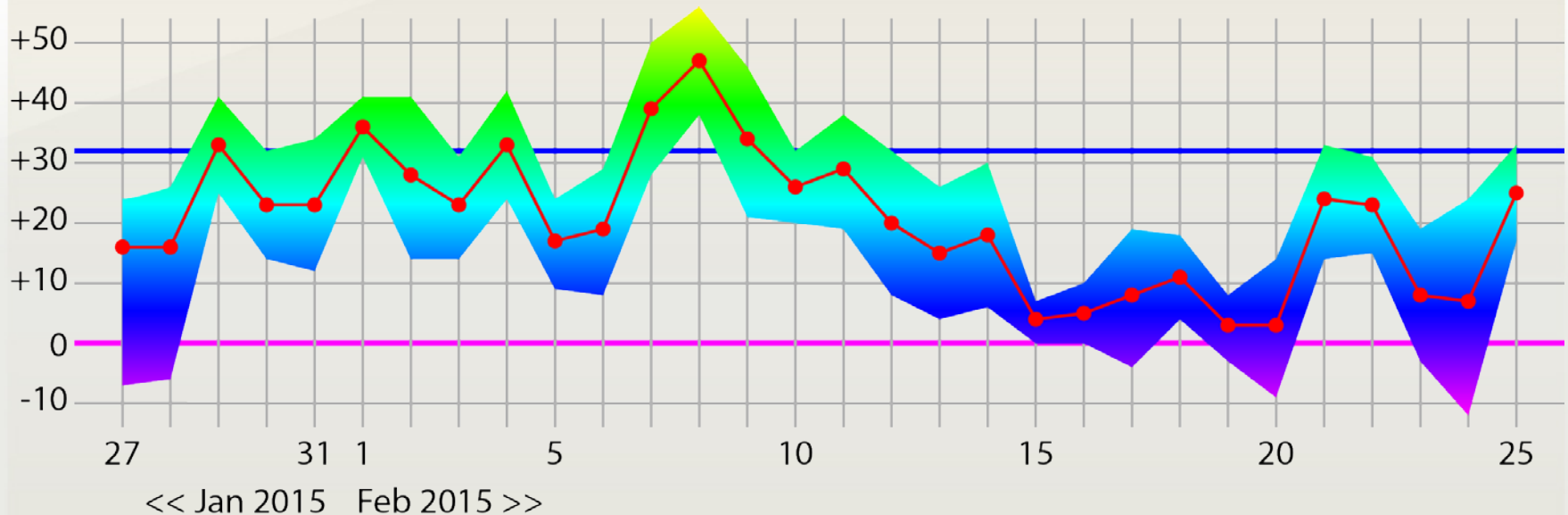


Passive Solar Airflow Dynamics



Passive Solar

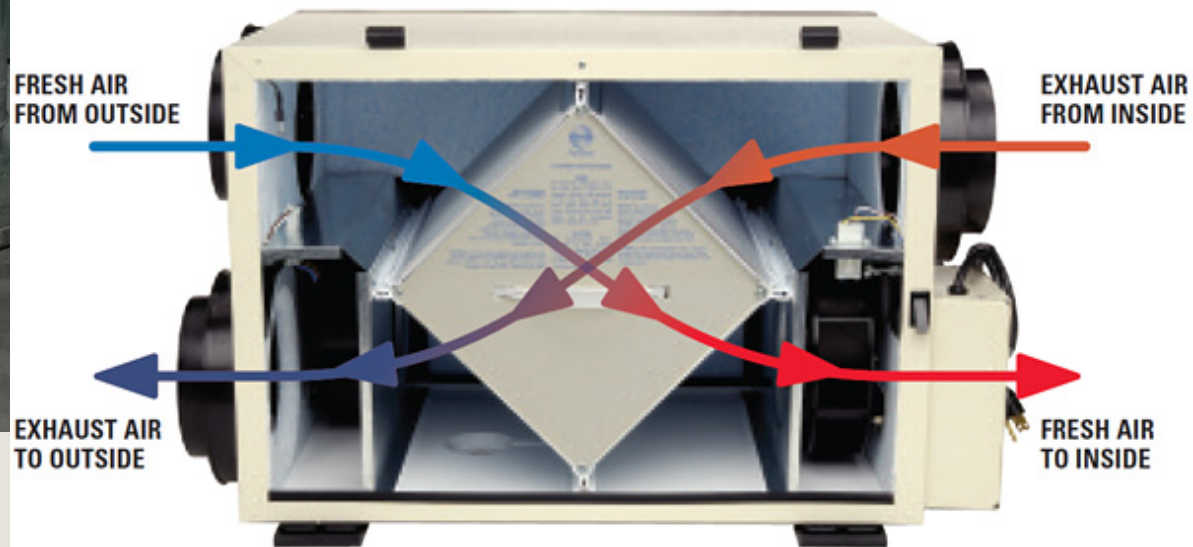
Natural Gas Heating Cost Example



Time Period:	1/27/2015 – 2/25/2015
Days:	29
Cost:	\$ 221.75
Cost per day	\$ 7.65
Cost per square foot	\$ 0.0263

Healthy Living Environment

Heat Recovery Ventilator (HRV)





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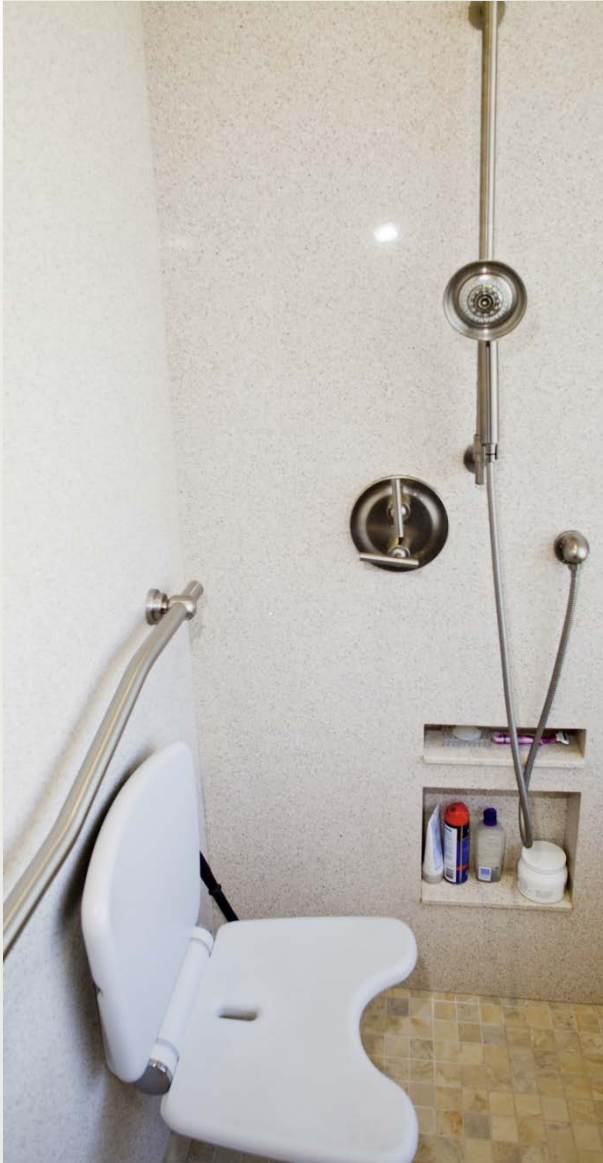
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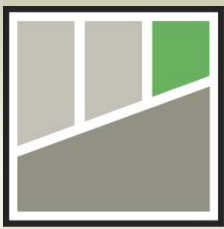
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Universal Design

Ideas to implement

- A no step entry with ½" max threshold (front or garage)
- 36" wide doors throughout (34.5" opening width)
- Lever handles on doors; C- or D-handles on drawers
- Lower countertop areas (kitchen / vanity)



Universal Design

Ideas to implement

- A no step entry with ½" max threshold (front or garage)
- 36" wide doors throughout (34.5" opening width)
- Lever handles on doors; C- or D-handles on drawers
- Lower countertop areas (kitchen / vanity)
- Blocking in walls for grab bars
- Curbless shower w/seating
- Hard surface flooring
- Toilets (17" to 19" high)
- Knee space under cabinets and sinks



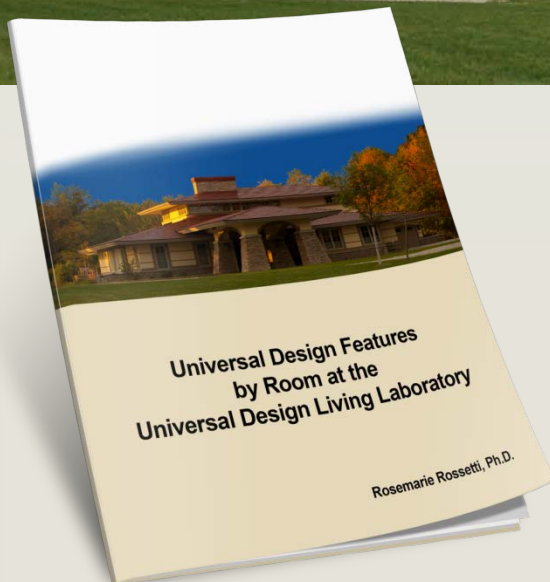
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Universal Design Is Socially Sustainable Design

