

Kolvenbach Green Building Features

The Peter-Hans Kolvenbach, S.J. Community is a distinctive service-learning living experience available to eight current students entering their sophomore, junior or senior years. This community provides students with the opportunity to live with other students engaged in service and simple living. This living experience exemplifies what it means for students to live “Jesuit in a new way.”

The two homes were built in 1918 and are located on E. Barclay Ct. near Cherry St and 13th St. Each home has two bedrooms, one bathroom, a living room and kitchen.



Built Green 3 Star Certified

- Built Green (www.builtgreen.net) is a green building rating system that benchmarks the environmental performance of homes and apartments.
- Built Green is a non-profit program of the Master Builders Association of King and Snohomish Counties, developed in partnership with King County, Snohomish County, and custom and production home builders.
- Built Green provides a prescriptive checklist of green building strategies related to energy, water, materials, indoor air quality and stormwater.
- Homes can achieve a one to five star rating. Both Kolvenbach homes were remodeled to achieve a Built Green 3 star rating. The minimum number of points to achieve a 3-star rating is 100 and a 4-star rating is 250. 1217 Barclay Ct. achieved 208 points and 1220 Barclay Ct. achieved 197 points.

Energy

- 92% efficient Energy Star (www.energystar.gov) qualified furnace.
- Energy Star qualified light fixtures.
- Tubular skylight in bathroom provides enough daylight so that electric light is not needed during the day.
- Blown-in cellulose insulation from recycled paper was added to the attics.
- Fiberglass batt insulation containing 25% recycled glass and no urea formaldehyde was added to the basement ceilings.
- Light-colored paint colors were chosen which reduces the need for electrical lighting during the day.
- A clothesline was installed in the back yard to dry clothes.
- Natural gas tankless hot water system supplies instantaneous hot water heater and is up to 50% more efficient than hot water heaters.



Tankless hot water system

Water

- Front loading clothes washers are Energy Star qualified.
- Dual flush toilets conserve water by flushing liquids with .9 gallons of water and solids with 1.6 gallons.
- Water efficient showerheads are 2 gallons per minute (gpm), bathroom faucet aerators (1 gpm) and kitchen faucets (2 gpm).
- Energy Star qualified dishwasher and no garbage disposal in kitchen sink as they require lots of water (only 1217 Barclay Ct. had its kitchen remodeled)

Materials

- Linoleum is made from linseed oils, pigments, pine rosin and pine flour; is biodegradable when no longer needed and has a 40 year life expectancy. Used for both bathroom floors, and the kitchen floor and countertop in 1217 Barclay Ct.
- Bamboo matures in 4 to 6 years and is harder, more moisture resistant and more stable than oak. Used for living room and hallway floors.
- Cork flooring, installed in the 1217 Barclay Ct bedrooms, is made from the waste from the cork wine bottle stopper industry. Cork's honeycomb hexagonal cells comprised of 90% gas makes the flooring soft and resilient.
- Carpet tiles, installed in the 1220 Barclay Ct. bedrooms, are squares of carpet that float on top of the floor and are joined to each other at the corners with adhesive dots. If something is spilled on the carpet, the affected tiles can be easily pulled up, washed in the sink and placed back on its adhesive dot when dry. If the stain is permanent, only the affected tiles are thrown away and replaced - not the entire carpet roll.
- Windows, bathtubs, sinks and lights were removed from the homes and taken to a reusable building material store to be re-sold for someone else's remodel. To close the recycling loop, the following lightly used building materials were purchased: the bathroom sink and vanity in both homes and also the faucet at 1217 Barclay Ct.
- 70% of the waste material generated by both homes was recycled including: cardboard, carpet, wood and metal, toilets, sinks and drywall.



Cork flooring

Indoor Air Quality

When you walk into a new or remodeled home, you'll often hear people remark it has that 'new house smell'. What you smell are volatile organic compounds (VOC's) - chemicals that evaporate easily at room temperature. Long term exposure to VOC's causes acute and chronic health problems. VOC's are emitted by many building products including paint, glues used to adhere carpet and vinyl flooring, glues used in kitchen cabinets, and formaldehyde in insulation.

- Interior house paint has a low VOC content.
- Fiberglass insulation does not contain urea formaldehyde, a known carcinogen.
- No carpet in 1217 Barclay Ct, just solid surface flooring.
- 1220 Barclay Ct. only has carpet tile in the bedrooms. The carpet tile floats above the floor without adhesives and is a low pile, less allergen attracting carpet.
- Bathroom exhaust fans are Energy Star qualified to use less electricity, are rated to less than 1.5 sones for quiet operation, and have a crank timer switch to ensure all the most air is pulled out of the room to prevent moisture in the walls which leads to mold growth.
- New vent installed in 1217 Barclay Ct.'s remodeled kitchen to draw moist, greasy cooking vapors out of the house.

Transportation

- Metal, lockable outdoor shed provides secure, covered bike parking.