

ROBERT LLOYD SHEET METAL INC.

CUSTOMER PROFILE

FIRSTENBURG COMMUNITY CENTER

The Firstenburg community center is a GOLD LEED certified building located in Vancouver Washington, constructed in 2006. The facility has an aquatics center, fitness center, gymnasium, climbing wall and additional facilities for teens, adults, and seniors. For LEED GOLD certification the community center implemented a series of energy saving features, including porous pavement for its parking lot and rain water capture for use in its grey water septic systems. Robert Lloyd Sheet Metal provided the HVAC materials (sheet metal, motors, actuators, etc.) and provided the control system for the HVAC system and the rain water capture system. As LEED GOLD certified the building conforms to the following LEED standards:

- LEED® Accredited Professional
- Erosion and Sediment control
- Site Selection
- Urban Redevelopment
- Alternative Transportation, Located near public transportation
- Bicycle Storage and Changing rooms
- Minimum parking spaces to promote using mass transportation
- Storm water Management, up to 25% decrease—using under building drainage system not city drainage. promoting natural absorption of water.
- Landscape & Exterior Design to reduce heat islands—White roof for reflection of heat.
- Water Efficient Landscaping, irrigation system reducing by 50%, native Pacific Northwest plants, which require less water.
- Fundamental Building Systems Commissioning
- Minimum Energy Performance
- Fluorescent lighting in all areas including guest rooms, occupancy sensors to automatically turn lights off when meeting rooms are not occupied.
- Complete Energy management system installed, CO₂ sensors in the meeting rooms. They sense the amount of carbon dioxide exhaled from people, adjusting the airflow accordingly to maintain comfort and indoor air quality.
- CFC Reduction in HVAC&R equipment
- Elimination of HCFC's & Halons, which are harmful to the Ozone.
- Storage & Collection of Recyclables
- Construction Waste management recycled all debris during construction of hotel.
- Construction used Local/Regional materials within a 500-mile radius supporting local growth, and reducing transportation impact.
- Daylight views for 90% of the building.

Robert Lloyd Sheet Metal implemented a BTL certified Andover BACnet control architecture, to allow for communication between third party BACnet devices and advanced control logic. RLSM installed CO₂ sensors for all of the functional space and humidity sensors for the aquatic center. The CO₂ sensors give the building the ability to control the amount of outside air that comes into the building and recycle the air that is already in the building, minimizing the energy need to reheat or cool the supply air for the space. The humidity sensor in the aquatic center prevents damage to the building from mold, thus maintaining the buildings overall value over time. The buildings septic system runs on a grey water which is collected from rain water. Stored, purified and later used, lowering the demand on the city water. Chilled Water and Hot Water Dynamic reset control of the central plants was also used to maximize energy savings for the building owner and gain additional LEED points for the advanced control strategy.

Robert Lloyd Sheet Metal is dedicated to providing quality energy efficient HVAC systems and controls for its projects. Whenever possible, we install CO₂ sensors, discharge air sensors, economizers, variable fan drives and implement advanced control logic to save owners money in energy and maintenance costs. RLSM goes beyond the status quo providing outstanding customer service and money saving practices through the following features implemented in all of our projects.

- E-mail alarming to notify you of equipment failures
- Building and zone scheduling which allows the building to run in occupied and unoccupied modes
- Remote access for advanced troubleshooting

To find out how Robert Lloyd Sheet Metal can help your project call us at (503)-838-3863 or send us an email at webinquiry@rlsm.net



Gold



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