

# ROBERT LLOYD SHEET METAL INC.

## CUSTOMER PROFILE

### HILTON VANCOUVER WASHINGTON

The Vancouver Hilton is not just a hotel; it also serves as the Vancouver convention center. This facility has 226 guest rooms, 10 suites and 30,000 square feet of function space in two ballrooms and nine meeting rooms. The Vancouver Hilton was the first LEED certified hotel built in the nation and is 30% more energy efficient than local city codes require. It is expected that the dollar savings in energy cost will pay off the added cost of construction in as little as eight months. As LEED certified, the building gains efficiency through its planning, construction and occupied phases through the following:

- LEED® Accredited Professional
- Erosion and Sediment control
- Site Selection
- Urban Redevelopment
- Alternative Transportation, Located near public transportation
- Bicycle Storage and Changing rooms
- Alternative Fuel & Refueling stations 6 plugs for electric vehicles
- 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.

Robert Lloyd Sheet Metal installed Co2 sensors and occupancy sensors for all of the function space. 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. In addition to building and room scheduling, the occupancy sensors provide additional cost savings by allowing a room to go into an unoccupied mode if the room is not occupied even if it is scheduled to be on. 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. To see what Robert Lloyd Sheet Metal can do for your project or building call us at (503)-838-3863.



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