



Rusebush Urban Reno

Passive Design Solutions



2,270 sqft



south back
yard



3+1



3



heat pump

- This project is one of the first passive-house level renovations in Canada- renovations present a challenge because existing assemblies generally do not meet passive-house standards and the design of the existing structure may not accommodate the principles of passive building.
- Keeping the structure and certain architectural elements of the existing home helped to reduce costs and speed construction, while maintaining a relationship to the previous building and the character of the neighborhood.
- Using careful detailing and assemblies, the home achieved a passive-house level of airtightness even though it is a renovation- the foundation/wall interface is particularly difficult in this kind of project!
- With a tight urban lot and a south-side condition, the window placement is carefully considered to maximize solar gains in the critical rooms while maintaining privacy and a friendly street face.

Project Information:

SIZE: 2270 sq. ft.

#BEDROOMS: 3 + den

ESTIMATED HEATING: \$200

DESIGN: Passive Design Solutions

ENERGY CONSULTING: Passive Design Solutions

BUILDER: Denim Homes

LANDSCAPE: Home Owner