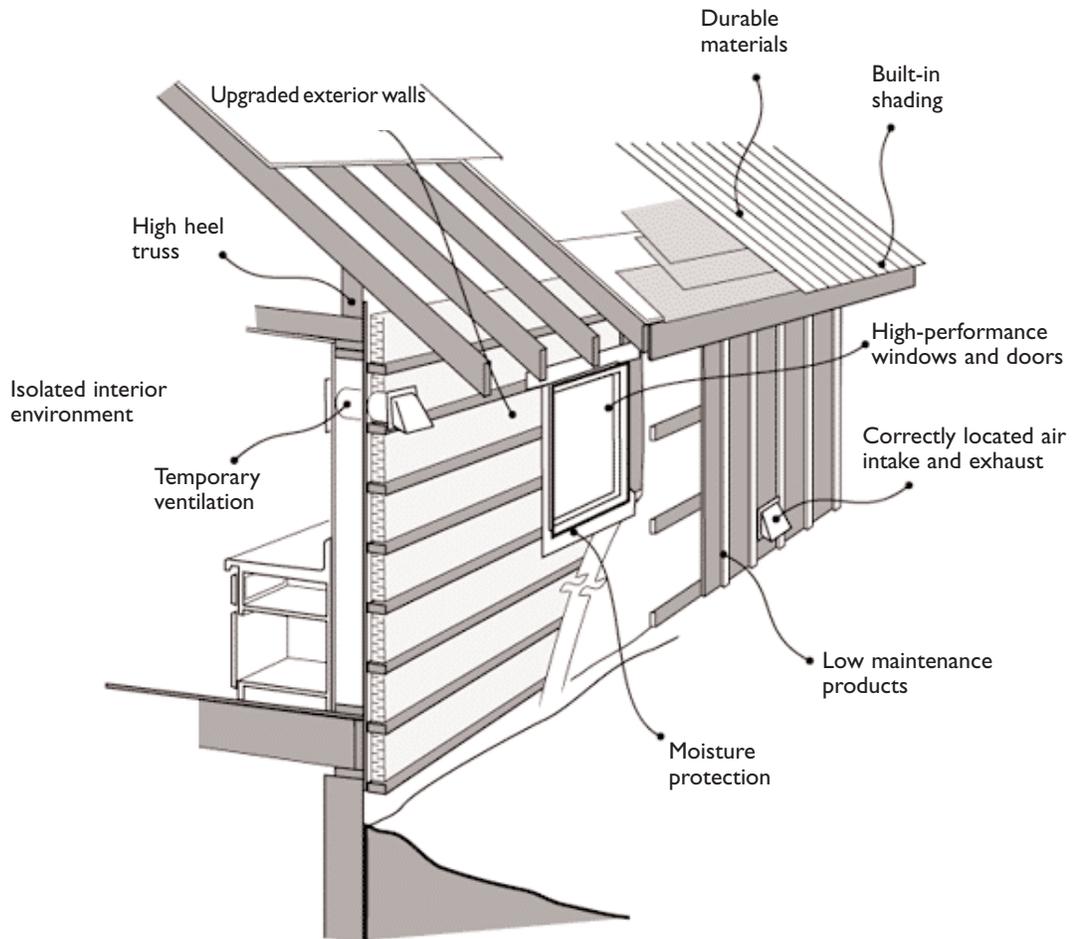


# HEALTHY HOUSING™

## Exteriors



- Appropriate materials
- Managed construction waste
- Managed hazardous waste



## Occupant Health

### Isolated interior environment

- Some exterior cladding and roofing materials will give off gas or produce emissions that can cause adverse reactions to some homeowners. Ensure that the interior of the home is sealed against air and gas entry.

### Temporary ventilation

- When renovation work might create noxious fumes and odours, plan a temporary ventilation strategy.

### Correctly located air intake and exhaust

- Ensure that intake and exhaust vents are installed correctly and not located near sources of contamination. Adequate clearances and separations between the intake and exhaust, and an understanding of air flows at building corners, will ensure good intake and air quality.



## Energy Efficiency

### Upgraded ceilings and exterior walls

- Increasing insulation levels when replacing siding is almost always justifiable. Rigid insulation can be added over wall sheathing, or new exterior frame walls can be constructed to accommodate new batt insulation. The installation of an effective air barrier, which permits vapour diffusion, can improve comfort levels and reduce energy use.

### High-performance windows and doors

- Older windows should be upgraded with high-performance windows. Specify energy rated windows with gas fills, insulated spacers and insulated frame materials.

### Built-in shading

- Overhangs, trellises and awnings can reduce summer over-heating by shading south- and west-facing windows.



## Resource Efficiency

### Durable materials

- More durable materials such as 30-year shingles, metal, slate or tile roofing can save resources and costs, especially when the costs of reinstallation are considered.

### Appropriate materials

- Products made from renewable materials such as wood, or plentiful materials such as brick, are preferable to products made from scarce, non-renewable materials. Using locally produced materials will reduce burdens on transportation systems.

### Moisture protection

- Ensure sufficient overhangs, flashing and sealants to prevent damage from water and ice damming.



## Environmental Responsibility

### Construction waste

- Send used materials in good condition to a reuse centre or have a yard sale on site. Recycle other used materials.

### Low maintenance products

- Select siding and roofing materials with minimal maintenance requirements (e.g., prefinished materials). These products will exhibit greater durability and require less maintenance.

### Hazardous waste

- Dispose of containers of waste products (sealers, paints, etc.) through the municipality's hazardous waste program.



## Affordability

### Life cycle analysis

- Enhanced energy efficiency will reduce the cost of operating your home and will improve comfort. Low maintenance materials, such as brick or metal siding, may cost less over the life of the product than wood siding, which requires repainting every few years.

To find more *Healthy Housing™* fact sheets plus a wide variety of information products, visit our website at

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Printed in Canada  
Produced by CMHC  
Printed: 2001, 2002, 2006  
Revised: 2006

20-12-06

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