Granby Farm House
Granby, CT

No certifications sought, per request of the homeowner

“This house is designed to support the needs and limitations of a wheelchair-bound woman and her caretakers in a comfortable and delightful setting”

Project Size:
  2,400 SF

Construction Budget:
  $204/SF

Water Savings:
  Well water

Energy Systems
  Passively heated and cooled throughout using careful orientation, sunshades, interior roller shades, and high thermal-mass floors and walls.
  
  Domestic hot water (and back-up, radiant-floor heating – rarely used) is supplied by a high-efficiency, LP-fired water heater.
Standout Green Features

Exterior Sunshades

South glass (including clerestory) is shaded in summer by exterior sunshades and roof overhangs.

Ventilation

The house is entirely passively ventilated throughout, with operable windows, operable transoms & airways. Open interior spaces at either end of the house allow for easy wheelchair movement, as well as good air and thermal flow.

Insulation

The house was built to be very tight and has a well-insulated thermal envelope: R15 under slab, R23 walls, R45 roof, R5.3 (U value = 0.19) triple-pane windows.

Building Materials

All building components were chosen for their benign characteristics and robust longevity: steel roof, cementitious siding & trim, concrete floor, engineered heavy timbers, SIP panel walls & roof, all low- or no-VOC finishes & adhesives.
“In form, construction and detail, the house recalls the local farm vernacular. The owners call it their ‘modernist chicken coop.’”
Project Team:

General Contact: Lindsay Suter, AIA, LEED AP
Rogers Mill, 16 Mill Rd, North Branford, CT 06471
203.484.5059

Architect: Lindsay Suter, AIA, LEED AP

Builder: Pierce Builders, Granby CT

Landscape Architect: Lindsay Suter, AIA, LEED AP

MEP Engineer: Lindsay Suter, with Mark Rosenbaum, Energysmiths

Structural/Civil Engineer: Doug Fisher, PE

Resources:


USGBC green homes - http://greenhomeguide.com

Northeast Sustainable Energy Association - http://www.nesea.org

The Connecticut Chapter of the US Green Building Council

http://www.ctgbc.org