

Terra Tonka

AN ECO-FRIENDLY NEIGHBORHOOD

"Green" construction standards, strategies, and amenities

General Goals and Principles

- 🌱 Resource efficiency
- 🌱 Water conservation
- 🌱 Indoor environmental quality
- 🌱 Site and Community Impact
- 🌱 Energy Efficiency

Design

- 🌱 The principles of Universal Design and sustainable lifestyle to guide the design process
- 🌱 Position windows to best utilize natural daylight and to allow for cross ventilation
- 🌱 Utilize passive solar concepts in design
- 🌱 Build from a structural and size efficiency

Site Management

- 🌱 Protect existing topography and landscape
- 🌱 Containment and recycling of construction waste
- 🌱 Construct surface grading elements that capture and minimizes surface run-off (water gardens)
- 🌱 Utilize native and drought resistant plantings

Construction

- 🌱 Marvin double pane windows with Low E and Argon
- 🌱 Poured foundations with active radon protection
- 🌱 Form-a-Drain™ footing drain with sump pump
- 🌱 Watchdog H3™ foundation waterproofing
- 🌱 Plywood exterior wall sheathing and subfloors
- 🌱 Mechanical ventilation for indoor air exchange

Energy

- 🌱 2 x 6 walls with advanced framing techniques
- 🌱 R-49 blown fiberglass ceiling insulation
- 🌱 Closed cell spray foam all house wall cavities
- 🌱 Closed cell spray foam all rim joists and cantilevers
- 🌱 Pan flash and seal all window and door openings
- 🌱 Sealed air barrier between conditioned and unconditioned spaces

Kitchen

- 🌱 Cabinetry in your choice of sustainable woods
- 🌱 Trash rollout and recycling center
- 🌱 Granite or Silestone countertops

Baths

- 🌱 Low flow aerators on faucets and showers
- 🌱 Dual flush .8 and 1.6 gpf toilets all baths
- 🌱 Wirsbo™ water supply lines and connections

Interior

- 🌱 Lyptus, bamboo, cork or other sustainable flooring
- 🌱 ICF and LED lighting encouraged where possible
- 🌱 Low or no VOC paints for interior walls

Exterior

- 🌱 Aluminum soffit and fascia system
- 🌱 Fiber-cement board siding all elevations
- 🌱 Trex™ or composite decking for porches and decks
- 🌱 Advanced siding techniques with drainage plane

Testing and Certification

- 🌱 Pre-construction meeting to review **Minnesota Greenstar™** principles and program requirements
- 🌱 EnergyStar™ participation, testing and certification
- 🌱 Minimum of three inspections from independent building scientists and final blower door test
- 🌱 HERS rating of 75 or better

Mechanical

- 🌱 96% efficient, multi-stage, variable speed fan furnace
- 🌱 Geothermal heat pump strongly encouraged
- 🌱 15 SEER central air with Puron™ refrigerant or air to air heat pump for air conditioning
- 🌱 Digital Honeywell™ setback thermostat
- 🌱 Ductwork taped and sealed, both supply and return
- 🌱 Carbon monoxide alarm within 10' of every bedroom
- 🌱 Smoke detectors all bedrooms with battery B/U

**For more information contact:
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