



EkoPassiveHouse

Weather Tight Shell Inclusions

● DESIGN

1. Preliminary Drawings (floorplans/elevations) & Construction Drawings
 2. Heat Loss Calculations (by HRAI certified designer)
 3. Mechanical Ventilation Design Summary (by HRAI certified designer)
 4. Energy Efficiency Design Summary (BCIN & P.Eng approved design)
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● 2nd Floor Assembly (if required)

- Floor Frame – 12” I-Joist over 12” LVL Beam
- Steel Teleposts
- Sheathing – 5/8” engineered OSB gold-bond or equivalent, <http://www.woodbywy.com/osb/weyerhaeuser-edge-gold-panels/>

● EXTERIOR WALL ASSEMBLY

Exterior to interior wall assembly:

- 1" x 4" strapping (spruce)
- Siga **Water-Barrier** Housewrap
<http://www.siga.ch/en/product-overview/majvest-detail.html>
- Agepan **Air-Barrier** WoodFiber breathable sheathing (3/4")
<http://pinwheelbuilds.com/agepan/>
- 14" I-joist wall frame
- 1/2" OSB sheathing **Vapour-Barrier**
- 2" x 6" frame wall

● ROOF SYSTEM

Exterior to interior roof assembly:

- 1/2" plywood sheathing c/w ice & water shield membrane
<http://www.certainteed.com/commercial-roofing/products/winterguard-ht/>
- 2"x4" roof sub-Frame (for steel roofing)
- Siga **Water-Barrier** Housewrap
<http://www.siga.ch/en/product-overview/majcoat-detail.html>
- Agepan **Air-Barrier** WoodFiber breathable sheathing (3/4")
<http://pinwheelbuilds.com/agepan/>
- P.Eng approved roof trusses, 30" parallel chord style
- 1/2" OSB **Vapour-Barrier**

- **WINDOWS & DOORS**

- **Product** – Munster PassiveHouse Windows & Doors
- **Website** -
<http://www.munsterjoinery.ie/productdetails?p=123&n=213&pc=0&gc=17&c=1&ci=1&i=12317>
- **Type** – PVC, color of choice
- **Glass** – Triple-glazed