

Part 1 General

1.1 RELATED SECTIONS

- .1 Rough Carpentry: Section 06 10 00.
- .2 Finish Carpentry: Section 06 20 00.

1.2 SOURCE QUALITY CONTROL

- .1 American Society for Testing and Materials (ASTM)
 - .1 ASTM E 84, Surface Burning Characteristics
 - .2 ASTM C 665, Mineral-Fiber Blanket Thermal Insulation
 - .3 ASTM C 1320-99, Standard Practice for Installation of Fiberglas Fiber Batt and Blanket Thermal Insulation for Light Frame Construction
 - .4 ASTM E 136, Determination of Non-Combustibility
 - .5 ASTM E 413, Classification for Rating Sound
 - .6 ASTM E C 1338, Microbial Growth
 - .7 ASTM E 96-96, Test Methods for Water Vapor Transmission of Materials.
- .2 Canadian Standards Association (CSA)
 - .1 CSA A101-M83, Thermal Insulation, Mineral Fibre for Buildings
 - .2 Green Guard Certification

1.3 Submittals

- .3 Submit Product data in accordance with Section 01 33 00 - Submittal Procedures.

Part 2 Products

2.1 INSULATION

- .1 Underslab and Inside Face of Foundation Walls:
 - .1 Rigid Cellular Polystyrene.
 - .2 Type 4
 - .3 Thicknesses:
 - .1 51mm thick insulation underside of slab on grade.
 - .2 51mm thick insulation below slab on grade at all reinforced concrete foundation walls as per drawings.
 - .3 CFC free and EcoLogo certified
 - .4 Square edge with ship lapped joints
 - .5 Acceptable materials:
 - .1 Dow – Styrofoam SM
 - .2 Owens Corning – Celfort 300
 - .3 Amvic - SilverBoard
 - .4 Approved Alternative
- .2 Exterior Thermal Walls:
 - .1 Insulating Mineral or Fiberglass Batts:
 - .1 Thickness: Full cavity as indicated or required.
 - .2 Type 1.

- .3 R-value: Minimum 4.1 / 102mm
- .4 R-Value: Minimum R22 @ 140mm (5 ½") thickness.
- .5 Acceptable Products:
 - .1 Roxul PW 40, Fibrex MB Plus, Eco_touch Pink Fiberglass by Owens Corning or approved equal.
- .3 Roof Truss Thermal Insulation:
 - .1 Insulating Mineral or Fiberglass Batts:
 - .1 Thickness: 2 Layers of 89mm (3 ½") as indicated or required.
 - .2 Type 1.
 - .3 R-value: Minimum 4.1 / 102mm
 - .4 R-Value: Minimum R40 @ 178mm (7") thickness.
 - .5 Acceptable Products:
 - .1 Roxul PW 40, Fibrex MB Plus, Eco_touch Pink Fiberglass by Owens Corning or approved equal.

Part 3 Execution

3.1 INSULATION INSTALLATION

- .1 Install insulation to maintain continuity of thermal protection to building elements and spaces.
- .2 Install insulation in areas as indicated. Friction-Fit in position as detailed and recommended by manufacturer.
- .3 Fit insulation closely around electrical boxes, pipes, framing and other objects in or passing through insulation.
- .4 Do not compress Insulation to fit into spaces.
- .5 Fill entire cavity, leaving no air spaces or voids.
- .6 Provide minimum 64mm (2 ½") vent space above insulation where installed in trusses / rafters and under Roof Sheathing.
- .7 Following manufacturers safety requirements and provide all safety equipment as required to complete the work.