

Final Project

Submission Info

Your final project will consist of a material quantity take-off, a bill of materials and an approximate labour cost for the residential home you have been reviewing all semester. Pay close attention to the specific components which we will be assessing in this final assignment as not all components will be looked at.

For the quantity take-off you may use any excel document provided to you throughout the course as reference and a template.

Submissions should be presented in a single PDF file. You may submit your excel file, but this will only be reviewed should significant errors be found within your take-off.

Units will be done in the imperial system (ie: inches, feet, yards).

You will work in your estimating teams to complete the submission **ON TIME**. Remember, there will be no late submissions accepted as I have built in the MAXIMUM amount of time when setting your due date. If you miss your deliverable deadline, I cannot provide the college with your final grades on time so please manage your time and work periods appropriately.

DIVISION 31 - EARTH WORK

Not to be included in this deliverable.

DIVISION 3 – CONCRETE

The quantity take-off for the concrete portion should include the following items:

- Concrete volume for slab
- Concrete volume for footings
- Concrete volume for foundation wall

NOTE:

- Labour pricing ONLY
- Footings: \$20–\$35 per linear foot (labour only)
- Basement Slabs: \$8–\$12 per square foot (labour only)
- Foundation Walls:
 - Labour only: \$10–\$15 per square foot of wall
 - Labour and materials: \$25–\$40 per square foot of wall (8" poured concrete, standard forms)

DIVISION 6 – WOOD, PLASTICS, COMPOSITES

The quantity take-off for the wood framing portion should include the following items:

Wall framing

- Plates (double top plate)
- Studs (exterior only)
- Wall sheathing

NOTE:

- 8% waste on plates
- 10% waste for all sheathing (floor, wall, roof)
- Labour pricing for framing \$8–\$14 per square foot of wall area

DIVISION 7 – THERMAL AND MOISTURE PROTECTION

The quantity take-off for thermal & moisture protection portion, should include:

Roofing finishes

- Eave protection
- Drip edge
- Shingles
- 15# felt paper

Exterior finishes

- House wrap
- Fascia
- Soffit

Thermal and Moisture Barriers

- Vapour barrier (under slab, walls, ceiling)
- Sill gasket
- Exterior (above grade) rigid insulation 2"
- Batt Insulation (Exterior wood-framed walls)

NOTE:

- 10% waste on asphalt shingles
- 7% waste on house wrap
- 7% waste on vapour barrier
- Material costs required for all listed items above
- Labour cost for the following items only:
 - House Wrap Labour Only: \$0.75–\$1.50 per square foot
 - Soffit Labour Only: \$4–\$8 per linear foot
 - Fascia Labour Only: \$4–\$8 per linear foot
 - Batt Insulation Labour Only: \$0.70–\$1.50 per square foot
 - Add \$0.50–\$1 per square foot for vapor barrier installation
 - Rigid Insulation Labour Only: \$1.50–\$3 per square foot
 - Includes cutting, fitting, and fastening rigid foam panels
 - Add \$0.50–\$1 per square foot for taping or sealing joints

DIVISION 9 – FINISHES

The quantity take-off for the finishes portion should include the following items:

Gypsum Board

- Drywall
- Trim
 - Baseboards
 - Casing (around doors and windows)

NOTE:

- Trim:
 - Single door 17' per door opening
 - Double 21' per door opening
 - Windows 24' per window.
- Material costs required for all listed items above
- Labour cost for the following items only:
 - Trim installation labour costs: 5–\$8 per linear foot of total trim
 - Drywall Labour Only: \$1.50–\$3.50 per square foot
 - Includes hanging and taping/mudding drywall