Technical Bulletin

Project Calculation

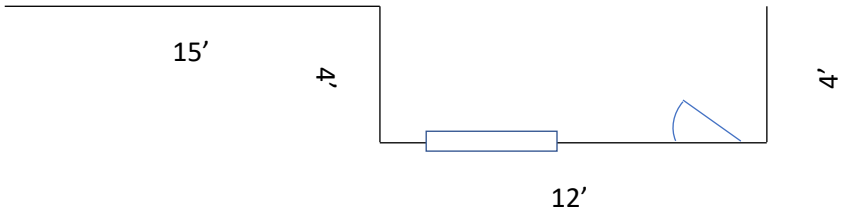
Estimating a construction project can involve a variety of factors, the instructions below are provided for general guidance. Construction experience, efficient material use, project planning, and other variables can impact the actual amount of material needed for a given project. Final project estimates should be completed by the installer.

For your convenience, a project calculator can be found on the Silvermine Stone website, by following the link below, and scrolling down to the calculator:

https://silverminestone.com/Products.aspx

Example:

The following example assumes that Silvermine Stone will be installed across the front of a house covering the bottom 3 feet of the wall. This example provides one door that is 3 feet wide and 1 window that is 4 feet wide, the bottom of the window is 2 feet above the bottom of the house.



Step 1: Determine overall square feet (sq ft) of stone needed:

The example project has 4 walls needing stone, each wall will have stone covering the bottom 3 feet of the wall:

- Wall 1: 15’ long x 3’ tall = 45 sq ft of stone
- Wall 2: 4’ long x 3’ tall = 12 sq ft of stone
- Wall 3: 12’ long x 3’ tall = 36 sq ft of stone
- Wall 4: 4’ long x 3’ tall = 12 sq ft of stone

Overall square feet needed = 105 sq ft

Step 2: Calculate stone needed for corners:

- Count the number of corners:
  - 2 Outside Corners
  - 1 Inside Corner

Total number of corners = 3 corners

- Calculate number of "linear feet" (lnr ft) of corners:
  - 3 corners x 3 feet of stone height = 9 lnr ft of corners

- Calculate number of boxes of corners needed:
  - Each box of corner contains 2 lnr ft of corner stones
    - 9 linear feet divide by 2 lnr ft per box = 4.5 boxes of corners

- Determine square feet covered by corner stones:
  - Each box of corners contains 7 sq ft of coverage
    - 7 sq ft x 4.5 boxes =

<u>31.5 sq ft of coverage by corner stones (5 boxes of corners)</u>

Step 3: Account for Doors & Windows:

- Calculate square feet accounted for by the door(s):
  - Project has 1 door that is 3 feet wide
    - 3 feet wide x stone height of 3 feet = 9 sq ft

- Calculate square feet accounted for by the window(s):
  - Project has 1 window that is 4 feet wide, bottom if window is 2 feet above the bottom of the house, sitting 1 foot below the top of the stone
    - 4 feet wide x 1 foot tall = 4 sq ft

- Combine the square feet for windows and doors = 9 sq ft + 4 sq ft =

<u>13 sq ft of area accounted for by doors and windows</u>

Step 4: Finish figuring Flat & Corner panel needs:

- Subtract Corner Stone coverage from Overall square feet needed:
  - 105 Overall sq ft minus 31.5 sq ft of corner coverage =
    73.5 square feet of Flat coverage

- Subtract Door & Window coverage from Flat coverage:
  - 73.5 square feet minus 13 sq ft =
    60.5 sq ft of Flats

- Determine Boxes of Flats
    - Each box of Flats contains 8 sq ft of coverage
    - 60.5 sq ft of Flats divided by 8 sq ft per box = 7.56 Boxes of flats

8 full boxes of Flats

Step 5: Determine Sills (if needed)

- Measure length of all walls:
    - Wall 1: 15’ long
    - Wall 2: 4’ long
    - Wall 3: 12’ long
    - Wall 4: 4’ long

Total length = 35’ long

- Account for Door(s) & Window(s)
    - Door 1: 3’ wide
    - Window 1: 4’ wide

    Total width of Door(s) & Window(s) = 7’ wide

- Subtract Door & Window width from wall length
    - 35’ – 7’ = 22’ of Sills needed
- Sills are 3’ long and come in boxes of three (9’ per box)
    - 22’ feet of Sills needed for project divided by 3’ per sill = 7.33 Sills

8 full Sills will be required or 3 boxes of Sills

Step 6: Calculate Fasteners

- 24 Fasteners are needed for each box of Flats & Corners
    - 24 x 8 boxes of Flats = 192
    - 24 x 5 boxes of Corners = 120

- 12 Fasteners are needed for each box of Sills
    - 12 x 3 Boxes of Sills = 36

348 Total Fasteners Needed = 4 packets of 100 Fasteners

Final Step: Total needs for project:

- **8 boxes of Flats**
- **5 boxes of Corners**
- **3 boxes of Sills**
- **4 packets of 100 fasteners**