

Materials required rules

User Inputs:

- Total wall length (in feet or meters)
- Number of niches
- Number of internal corners
- Number of external corners
- Wall height (specify if any sections exceed 8 feet)

Material Calculations:

1. Wall Panels:

- Standard Fibo wall panels measure approximately 24 inches (2 feet) in width and 94.4 inches (7.87 feet) in height.
- Calculate the number of panels required:
 - Convert total wall length to inches (if input is in feet).
 - Divide the total wall length by the panel width (24 inches).
 - Round up to the nearest whole number to ensure complete coverage.
- For metric calculations:
 - Convert total wall length to millimeters.
 - Divide by panel width (600 mm).
 - Round up as above.

2. Fibo Grip:

- Allocate 1 Fibo Grip per project.

3. Fibo Seal:

- Allocate 1 Fibo Seal per project.

4. Base Profiles:

- Assign 1 base profile per panel.

5. Corner Profiles:

- Assign 1 internal corner profile per internal corner.
- Assign 1 external corner profile per external corner.

6. Sealant Tubes:

- Determine the number of sealant tubes based on panel count:
 - Specify the coverage area per tube (e.g., 6 panels per tube).
 - Divide the total number of panels by this coverage to determine the number of tubes needed.

7. Screws:

- Each panel requires 16 screws. blog.innovatebuildingsolutions.com
- Calculate total screws:
 - Multiply the number of panels by 16.
- Determine the number of screw boxes:
 - If total screws ≤ 800 , use boxes of 200 screws.
 - If total screws > 800 , use boxes of 1,000 screws.

8. Fibo Clean and Fibo Wipes:

- Allocate 1 can of Fibo Clean per 6 panels.
- Allocate 1 can of Fibo Wipes per 6 panels.
- 9. **Stacking Profiles** (for wall heights over 8 feet):
 - If any wall sections exceed 8 feet in height:
 - Determine the length of wall exceeding 8 feet.
 - Assign 1 stacking profile per panel covering this area.

Additional Considerations:

- **Niches:**
 - For each niche, additional materials may be required, such as:

Material Calculations per Niche

Each niche requires:

1. **Additional Wall Panel Material:**
 - Niche interiors must be lined with panels for a seamless look and waterproofing.
 - Calculation:
 - **(Niche height + Niche depth) × 2** → Total panel length required for side walls.
 - **Niche width** → Additional panel section for the back wall.
 - Panels come in standard widths of **24 inches (600mm)**; cutting waste must be accounted for.
2. **Edge Profiles** (to finish and seal exposed edges):
 - **1 internal corner profile per side wall** (to transition from the wall into the niche).
 - **1 additional internal corner profile if the niche is deeper than 6 inches** (as deeper niches require more complex coverage).
 - **L-profile or finishing trims for the exposed niche edges.**
3. **Sealant:**
 - Every cut edge must be sealed for waterproofing.
 - **Additional Fibo Seal tubes are required** based on the total extra linear footage from niche coverage.
4. **Screws:**
 - More attachment points are needed due to extra panel sections inside the niche.
 - Estimate **4 additional screws per niche**, depending on size.
5. **Fibo Wipes and Clean:**
 - If niches significantly increase the panel count (e.g., **every additional 6 panels**), add extra **Fibo Wipes and Fibo Clean**.

Example Calculation:

For a single niche of 12 inches wide × 24 inches high × 6 inches deep:

- **Panels Needed:**
 - **Side walls:** (24-inch height + 6-inch depth) × 2 = 60 inches (5 feet) of panel.

- **Back wall:** 12 inches of panel.
- **Total panel length needed** = 5 feet 12 inches (≈6 feet).
- Round up to the nearest full panel set (2 panels per set).
- **Profiles Needed:**
 - **2 internal corner profiles** for side edges.
 - **L-profile trim** for exposed edges.
- **Sealant & Screws:**
 - **1 extra tube of sealant per 3 niches.**
 - **4 extra screws per niche.**

Line item optional waste factor 7%

Rounding materials style, if there is a remind must round up