

### XIII. ESTIMATING

In order to accurately estimate the cost of a flooring installation, the following guidelines will be helpful.

A. EXISTING FLOOR	Check for later reference	B. CONDITION OF EXISTING FLOOR	Check for later reference
Plywood Underlayment	<input type="checkbox"/>	Single Floor	<input type="checkbox"/>
Lauan Plywood	<input type="checkbox"/>	Painted or Varnished	<input type="checkbox"/>
Untempered Hardboard	<input type="checkbox"/>	Protruding Nails	<input type="checkbox"/>
Tempered Hardboard	<input type="checkbox"/>	Improperly Nailed	<input type="checkbox"/>
Particleboard	<input type="checkbox"/>	Warped Boards	<input type="checkbox"/>
Oriented Strand Board	<input type="checkbox"/>	Cracks	<input type="checkbox"/>
Strip Wood	<input type="checkbox"/>	Rough	<input type="checkbox"/>
Concrete On Grade	<input type="checkbox"/>	Wavy	<input type="checkbox"/>
Concrete Below Grade	<input type="checkbox"/>	Uneven	<input type="checkbox"/>
Concrete Suspended	<input type="checkbox"/>	Holes	<input type="checkbox"/>
Carpet (Tackless)	<input type="checkbox"/>	Scaly or Sandy	<input type="checkbox"/>
Carpet (Direct Glue Down)	<input type="checkbox"/>	Possible Moisture	<input type="checkbox"/>
Old Resilient Tile	<input type="checkbox"/>	Foreign Material	<input type="checkbox"/>
Old Cushioned Sheet Vinyl	<input type="checkbox"/>	Oil or Grease	<input type="checkbox"/>
Old Non-Cushioned Sheet Vinyl	<input type="checkbox"/>	Deeply Embossed (old floor)	<input type="checkbox"/>
Other _____	<input type="checkbox"/>	Poorly Bonded	<input type="checkbox"/>
Other _____	<input type="checkbox"/>	Delaminated	<input type="checkbox"/>
		Dented	<input type="checkbox"/>
		Other _____	<input type="checkbox"/>
		Other _____	<input type="checkbox"/>

### C. MEASURING FOR FLOORING

#### 1. RESILIENT SHEET PRODUCTS

The quantity of sheet flooring which will be required must be figured on the length of the piece(s) required, not the square footage in the room. The following are general points to be considered when measuring:

- Measure into any doorways or arches in the room. At doorways, the flooring should meet the adjoining floor at the mid point of the door when it is closed.
- Add a minimum of 3" (7.6cm) to the net length of the room. This will allow for sheet alignment within the room, and compensate for areas which may not be square. If a design requiring matching is being installed, the 3" (7.6cm) is only required on the first sheet. Review Section IV., B. "Calculating Additional Material To Acquire A Design Match At Seams" on page 15 for matching information.
- If there is a stairway or stair landing to be covered on the installation, any cut-off pieces may be used for these areas. Figure additional material, if required, to complete the installation. If a designed floor is being installed, keep in mind that the

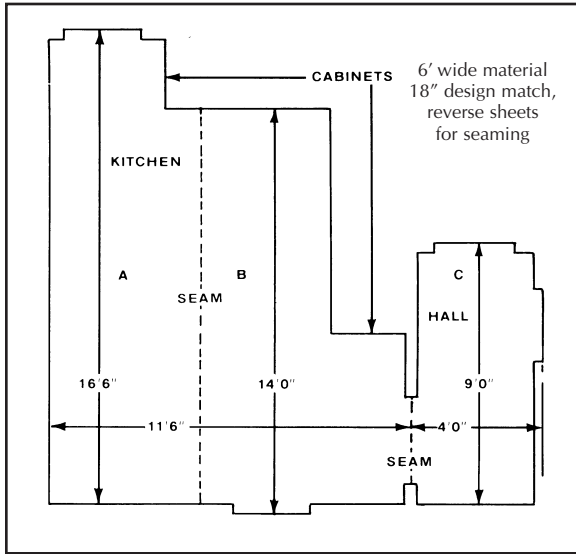
positioning of the design should be the same on each step and riser.

- It will be possible to install the flooring material seamless in most rooms because of the availability of the 12' width in many products. In rooms that are 12' or under in width, the flooring required is the room length plus 3" (7.6cm).
- On seamed installations, the length of each sheet of flooring must be determined.

Draw an accurate diagram of the room, or rooms, showing seam placement. This will help eliminate errors, and provide a permanent record for use when the flooring is actually installed.

On other than overall designs, additional material will be required to match the design. The method of calculating additional flooring material will vary depending on the specification for seaming (reverse sheets or do-not-reverse sheets). This information with length of design match is available in the Congoleum Resilient Flooring literature. On the following page are examples of diagrams utilizing "Reverse Sheets" and "Do-Not-Reverse Sheets" specifications.

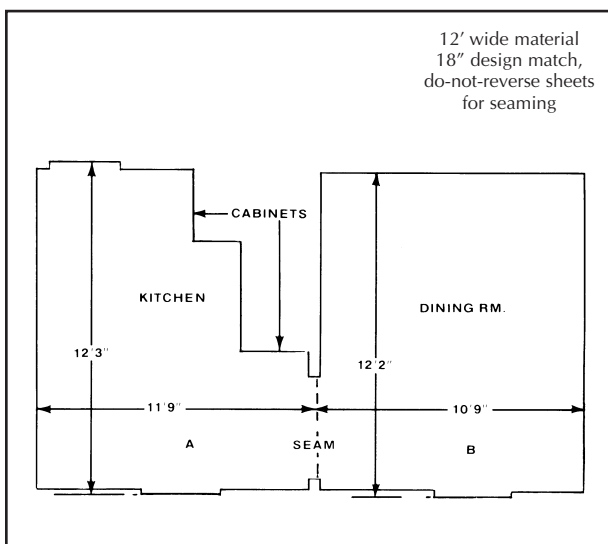
**REVERSE SHEET DESIGNS** - After establishing where the seam should be placed, measure the length of the first sheet and add 3" (7.6cm). The second and all succeeding sheets should have the length of the design match added to the length of the sheet needed.



**Fig. 184.** Reverse Sheet Designs

Piece A	6' x 16'6" plus 3"	= 6' x 16'9"
Piece B	6' x 14'0" plus 18"	= 6' x 15'6"
Piece C	6' x 9'0" plus 18"	= 6' x 10'6"
<b>Total</b>		<b>6' x 42'9"</b>

**DO-NOT-REVERSE DESIGNS** — Establish where the seam should be placed, measure the first sheet and add 3" (7.6cm). The second and succeeding sheets should be calculated by going to the next multiple of the design match over the net size required for the sheet.



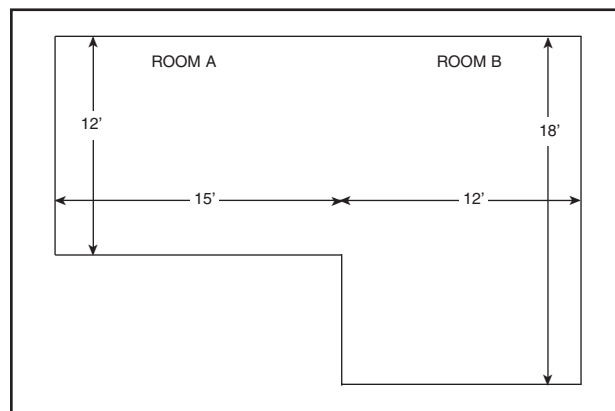
**Fig. 185.** Do-Not-Reverse Sheet Designs.

Piece A	12' x 12'3" plus 3"	= 12' x 12'6"
Piece B	Next multiple of design match over size needed	= 12' x 13'6"
<b>Total</b>		<b>12' x 26'0"</b>

**Note:** Normally, homeowners will want the design to be centered in the room. In this case, the design match should also be added to the length calculated on seamless installations and to the first sheet only on seamed installations.

## 2. TILE PRODUCTS

On tile installations, it will be necessary to calculate the number of square feet in the room(s). To do this, break the room into rectangles and calculate the square footage in each. Figure 186 provides an example of how to calculate the quantity of tile required for installation in two adjoining rooms.



**Fig. 186.** Calculation of tile required for two adjoining rooms

Multiply length by width of each rectangle as follows:

Room A	12' x 15'	= 180 square feet
Room B	12' x 18'	= 216 square feet
Sub Total		396 square feet
Add 5% for Waste*		20 square feet
<b>Tile required for job</b>		<b>416 square feet</b>

To calculate cartons, divide the total square feet by the number of square feet per carton (include the grout joint width in the square feet per carton number if installing grouted DuraCeramic). For example, 1/8" vinyl composition tile has 45 square feet per carton; 10 cartons will be required (unless partial cartons are available from distributor).

\* **NOTE** 5% waste should be used for installations ranging from 300 to 1,000 square feet. Larger installations will require less waste, ranging from 1% to 4%; while smaller installations may require up to 15% waste.

## D. OTHER CONSIDERATIONS

- There will be appliances which require moving on most jobs. Having good moving equipment is very important. If the installation is a one-piece resilient sheet installation, all movable appliances will have to be taken from the room. If the installation requires

two or more sheets, it is likely that the appliances can be moved within the room. For tile installations, appliances can be moved as required within the room to install the tile.

On gas operated appliances, check to see if there is a shut off valve. If none exists, a central valve may have to be turned off and could require gas company services, which usually must be requested by the consumer. You should also check to determine if state or local ordinances require that a licensed plumber or electrician disconnect and reconnect utilities.

- Removal of toilet bases and other plumbing fixtures may be necessary for a good job. If the customer assumes this responsibility, be sure they understand that removal and reinstallation must be coordinated around the flooring installation.

## E. PREPARING THE ESTIMATE

### 1. MATERIALS

Following is a check list of materials which may be required for the flooring installation:

Resilient Sheet Flooring

- Size, width and length

Tile

- Numbers of cartons

Metal (pieces or length required)

- Doorway
- Stair nose
- Cap material

Top Set Cove Base

- Height
- Piece required
- Adhesive

Flooring Adhesive

- Type (stock number, e.g., 3044)
- Quantity

Subfloor Patching Materials

- Type
- Quantity

Underlayment

- Type
- Thickness
- Size of sheets
- Number of sheets
- Fasteners

Seam Sealer

- Type (stock number, e.g., SU80)
- Quantity

Miscellaneous

- Pattern scribing felt
- Cove fillet strip

## 2. LABOR

Following are a number of items to be considered when estimating labor.

- Flooring Installation
- Preparation of existing floor
- Underlayment installation
- Old floor removal (refer to warnings on inside front cover if removal of an existing resilient floor is being considered).
- Moving appliances
- Additional labor for steps
- Self-cove labor
- Metal installation
- Other work not mentioned above

## F. LEAVE BEHINDS

Be sure the consumer receives a copy of the Congoleum Maintenance and Warranty Information Brochure (M3702). This brochure explains the maintenance recommendations for all Congoleum flooring products and also includes product warranties.