

Measuring for a McCoy Millwork Full Surround Mantel

Customer _____

Phone _____

Date _____

The following is a list of issues to discuss when ordering a template (pre-designed) mantel or designing a custom mantel. McCoy Millwork is a material supplier. We do not advise on installation issues or code regulations.

Oregon Building Codes Agency: 503-373-7529 (Salem Or)

Washington State Building Codes: 360-487-7800 Ext: 0 (Vancouver)

Stain Grade

Paint Grade

Custom

Check list for full surround mantels

- The wall the mantel will be mounted on is a flat, single plane wall. Our mantels are not designed to wrap around bump-outs, projections and corners or fit into corners. ****Provide a photo for clarification****
- Hearth and surround are complete or are in the design phase. Surrounds with patterned tile arrangements should be designed at the same time as mantel to coordinate with opening size .
- Review vertical and horizontal "Clearance to Combustibles" requirements. For wood burning fireplaces contact the State or local code office. For gas fireplaces and inserts refer to the installation manual for the unit installed.
- Review possible features around a firebox that may impact size, placement and manufacturing of a mantel: Windows, doors, gas controls, light switches and electrical outlets.
- We can arrange for an on site measure. The fee is \$75 and is transferred to the deposit upon ordering.
- Paint grade mantels are constructed using a combination of MDF, Primed Pine and/or Hemlock
- All paint grade mantels are unfinished. Stain grade mantels can be prefinished with a clear coat of Osmo-Poly X oil.
- Lead time is 3 weeks, a 50% deposit is required at time of order
- Installation is the responsibility of the home owner. We have a list of recommended contractors

On the back of this form is a guide to completing a mantel measurement sheet. Please bring your measurement sheet and this form along with any photos you have to our sales counter for assistance before ordering.

Keep in mind planning a mantel may take a series of adjustments in some of the dimensions. The only dimensions that are **NOT** negotiable are the firebox size, the minimum for (F) and (G) as prescribed to meet code and as noted on the measurement sheet.

Custom mantels - use a blank custom mantel form; first define the body size, (E), (F), (G), (J) and then use the McCoy catalog or other special order catalogs to choose trim pieces.

Simple modifications that should not require re quoting as a custom: switching a crown profile to a stock crown of similar size; removing pieces, i.e. corbels; adding or removing moulded edge banding in stock profiles.

Sources for unusual trim: Corbels - Fypon or Ekena; Moulding - Architectural Millwork, Alexandria, Ferche, Metrie and the shop.

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Choose the measurement sheet for the preferred mantel and follow the steps below:

1 Begin with noting the width and height of the firebox opening or insert size. W= _____ H= _____

2 **Tile Surround:**

- a For **existing surrounds** measure the surround and enter the Width for **(G)** (check for clearance minimums)
For **new fireplaces** add the **width from #1** to the **[minimum clearance x2]**
OR to the **[preferred distance x2]**, provided it is more than min requirements.

Enter the width of the surround = (G) on the measurement sheet.

**Note this measurement does not include the Opening Trim (3/8" - 1/2" wide)

- b For **existing surround** measure the surround and enter the Height for **(F)** (check for clearance minimums)
For **new fireplaces** add the **Height from #1** to the **[minimum clearance]**
OR to the **preferred distance**, provided it is more than minimum requirements.

Enter the Height of the surround = (F) on the measurement sheet.

**Note this measurement does not include the Opening Trim (3/8" - 1/2" wide)

- 3 Following the recommended minimums on **(H), (D), (C)** fill in the appropriate spaces on the measurement sheet.
(H) Legs: min. width allows for design elements such as recessed panels, mantel moulding and columns. We do not advise narrower widths than the minimum. Widening the leg may require a taller breast board to keep proportions pleasing.

(D) Breast Board: minimum height allows for design elements such as crown, recessed panels, corbel, onlay and panel mouldings. We do not advise narrower heights than the minimum. Raising the height may require wider legs to keep proportions pleasing.

(C) Shelf thickness is fixed on all template mantels. Adjusting the thickness will require a custom quote.

- 4 Following the instructions calculate **(E)** and **(J)** on the measurement sheet.

5 **(B) Shelf Width**

There are two methods for figuring this dimension.

- a Use the instructions for **(B)** to determine the minimum width. If you go wider this will increase the overhang of the mantel shelf past the crown
- b **Preferred width for the shelf (B).** You can start with this measurement and using the (B) instructions subtract the minimum and check the result; if the result is more than (E) it will be fine. If the result is less than (E) you'll need to adjust the shelf wider, the legs narrower or the opening narrower.

- 6 **(I) Mantel body Interior Cavity.** This is the Depth of the masonry, tile, stone surround + 1/4" or a **minimum of 1" for the installation of a French cleat.**

An example for the calculation:
$$\begin{array}{r} \text{tile thickness} \\ + \text{air space} \\ \hline \text{Interior Cavity (I)} \end{array} \quad \text{or} \quad \begin{array}{r} 3/8" \text{ tile} \\ + 1/4" \text{ air space} \\ \hline 5/8" \text{ (I)} \end{array} \quad \text{Min 1" for cleat}$$

NOTE** The outside of the mantel leg is **NOT "I"**. If you want to specify an outside leg dimension you'll need to adjust the opening trim to fit. Standard Outside leg depth = **(I) + 3/4"**

- 7 **(A) Distance from the wall to the front of the Shelf**
Use the instructions for **(A)** to determine the **Minimum Depth.**
Use the following chart to determine the **Maximun Depth.**

Max mantel shelf depth	
(I) Dimension	Max shelf calculation
(I) = 0" - 2"	Min Depth + 3"
(I) = 2" - 4"	Min Depth + 5"
(I) = 4" - 6"	Min Depth + 7"

example; using 1" (I)
(I) = 1" and recommended + 3-1/2" Min fm measure sheet
min. of 3-1/2" + 3" Max addition from chart
7-1/2" Max shelf depth

Shelf depth (A) range = 4-1/2" to 7-1/2"

- 8 Opening Trim is our stock parting bead. Custom OT can be made when needed. Reasons for deeper OT are; interior cavity (I) deeper than the min. or specified outside leg depth. To determine if you need deeper OT add I + 3/4" and subtract from the outside leg dimension. if the difference is more than 1/2" you may need deeper OT.