FINISHING YOUR OVEN: A FACADE TUTORIAL

VARIATION: MT. SERIES ARCHED WALL

These illustrations refer to the installation of a WS-MS-5-RFG-IR dual-temperature gas oven. Many details are applicable to all of our WS-MS ovens; some apply to WS-MS-RFG-IR ovens only.

Keep in mind as you read through this tutorial that this example utilizes an **Arched Doorway Extension for Flat Wall.** This Extension is a new option and we are very pleased to offer it for folks looking for that traditional arched doorway look. It can be flat, meaning flush to a "flat" wall, or curved. We also make many other Facade Extension options that can make much of the installation process easier. Be sure to view our Facade Extension page for details.

STEP 1. THE BASE OVEN

Figure 1.1 Represents a standard **WS-MS-5-RFG-IR** oven. It has shipped with a factory installed Arched Doorway Facade Extension for Flat Wall. Specs for additional sizes are available in our online **Product Catalog** and **CAD Symbols** in our **CAD Library**.

For more details on how the oven arrives from the factory, please visit our **Unloading & Moving** page.

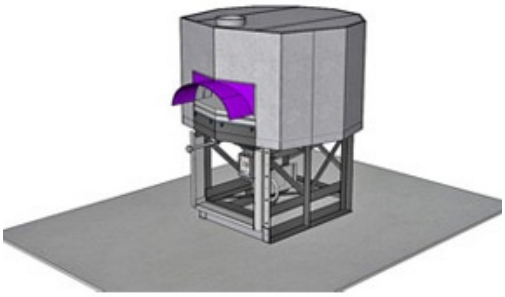

Figure 1.1

Figure 1.2 Mount the Service Panel and Toe Kick according to the instructions in the installation manual. Please note the location of the Toe Kick, it ships unattached and is installed at a small offset from the Service Panel to maintain room for combustion air. See the **Airflow Detail** on **page 5**.
Note: The Service Panel must remain removable for access to the under part of the oven.

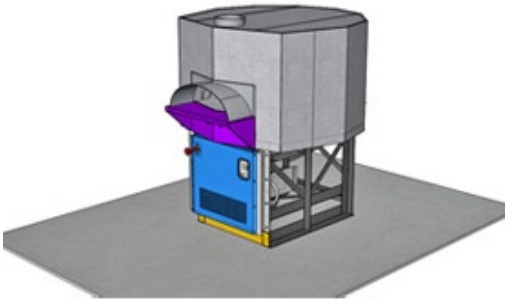

Figure 1.2

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STEP 2. STUD WALL

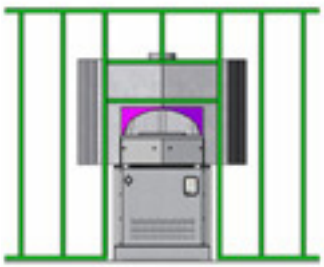
Here the stud wall is built (in green). Metal studs are recommended. Consideration must be given to the wall framing position to insure the minimum one-inch offset from the back of the wall surface (sheetrock) to the oven sheet metal (See **Offset Detail** on **page 4**).

In addition, the studs on either side of the doorway must be far enough apart so that when sheet rock and tile are installed, the Service Panel can still be removed for oven service. For more information, see the **Panel Detail** on **page 5**.

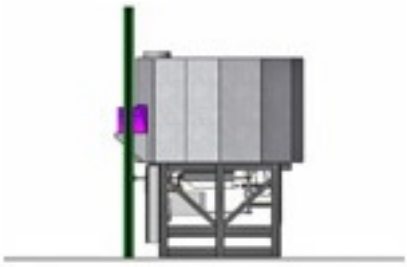
Note: The control box is mounted in the Service Panel where it is convenient for the chef to operate. (The control box can be remounted in a different position, but you will need to specify at the time of order so we can plug the service panel hole and ship the controller with a longer lead).

Figure 2.1

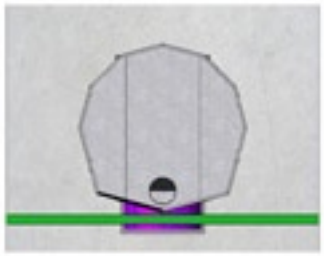
ALTERNATE VIEWS OF STEP 2:



Front View



Side View



Plan View

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STEP 3. NON-COMBUSTIBLES

Seen here in yellow is the non-combustible wallboard. This is required directly over the oven doorway and 6 inches on either side of the doorway.

Non-combustible material is also required anywhere the facade touches the oven or the mantle. In this illustration, the non-combustible wallboard is used as flashing from the studs to either side of the service panel and contacts the edge of the mantle.

Usually a cement board is used for this application. Brand names of appropriate underlayment include **Wonderboard** and **DUROCK**. (Drywall is considered a combustible and should not be used).

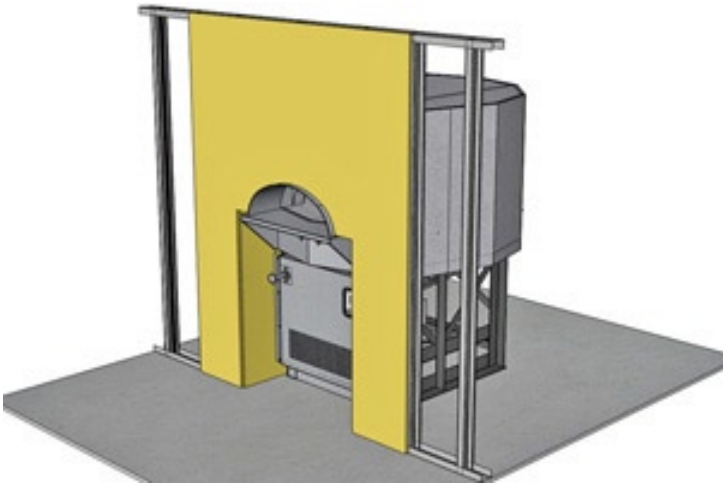

Figure 3.1

STEP 4. ADDING DRYWALL

Shown In the lighter yellow is the drywall applied to the stud wall. This portion does not need to be non-combustible.

For the sake of simplicity of construction, many installers choose to make the entire wall out of the non-combustible cement board mentioned above as to avoid cutting many oddly shaped segments.

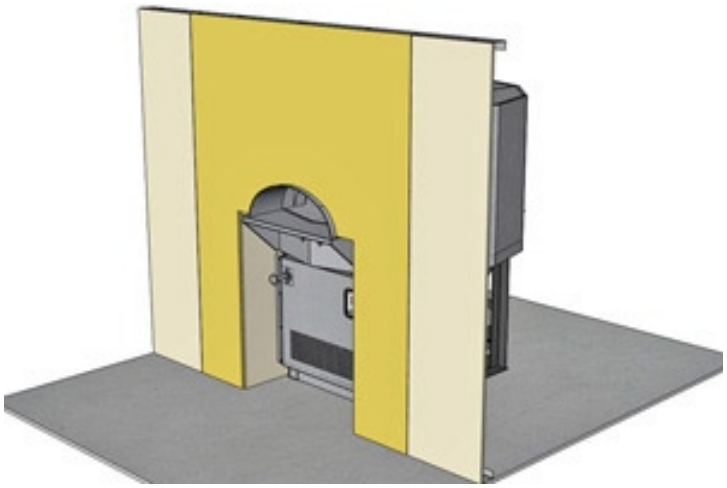

Figure 4.1

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STEP 5. FINISHING

Drywall can be finished with any decorative material that can be easily affixed to the wall surface such as tile, stucco, sheet metal, brick, etc.

Note: It is necessary for the proper operation of our ovens that the Radiant Flame Control Knob be fully accessible after all finishing is completed. Please see the **Radiant Knob Detail** on **page 6**. This knob controls temperature in our gas ovens, if you cannot adjust the knob, you cannot adjust the temperature.

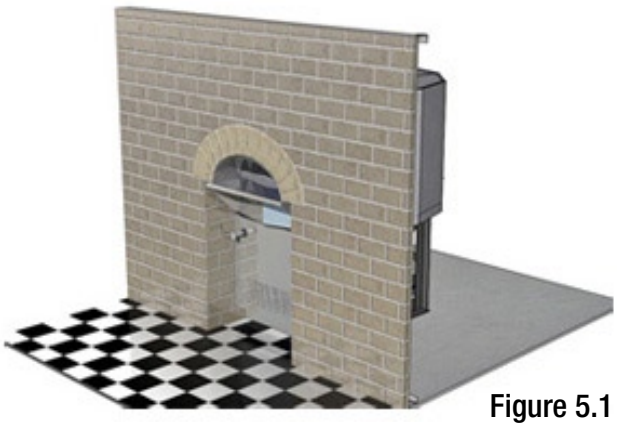
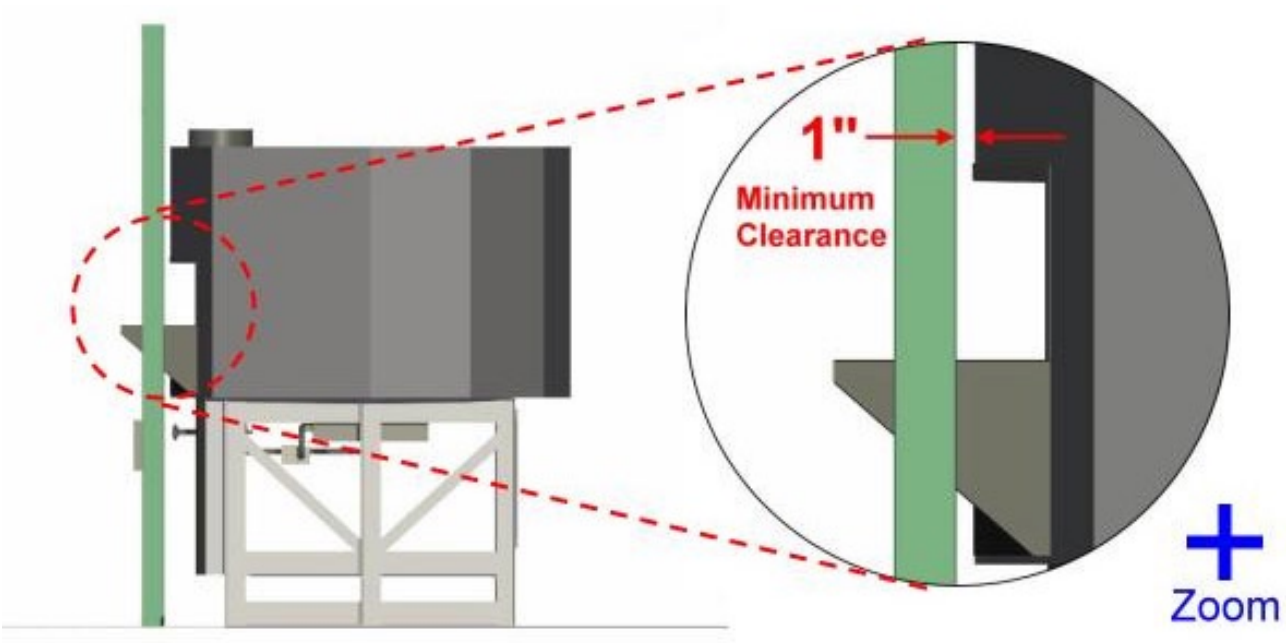


Figure 5.1

ARCHED WALL WITH FACADE EXTENSIONS -- SPECIAL DETAILS

OFFSET DETAIL

Note: The studs maintain 1" clearance from the oven. If these are metal studs they may touch the oven, however, **THEN** the 1" clearance to combustible construction must be maintained from the surface of the finished wall (in other words, no stacking napkins or wood next to the oven facade). If there is an airspace between the metal stud, and a minimum of 1" to the wallboard, you will be able to stack combustibles next to the facade.



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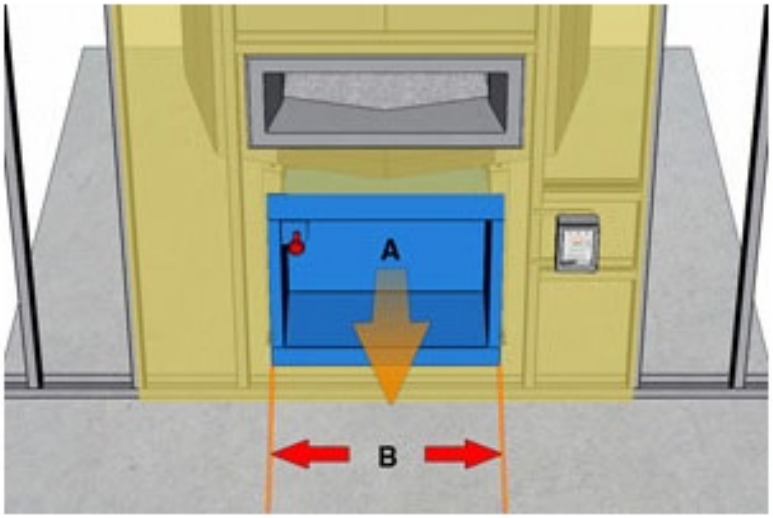
ARCHED WALL WITH FACADE EXTENSIONS -- SPECIAL DETAILS (CONTINUED)

PANEL DETAIL

When the facade is complete, the Storage Box Facade Extension must remain removable. **'A'** represents the unobstructed path of the panel for removal. **'B'** represents the width necessary to keep that path clear.

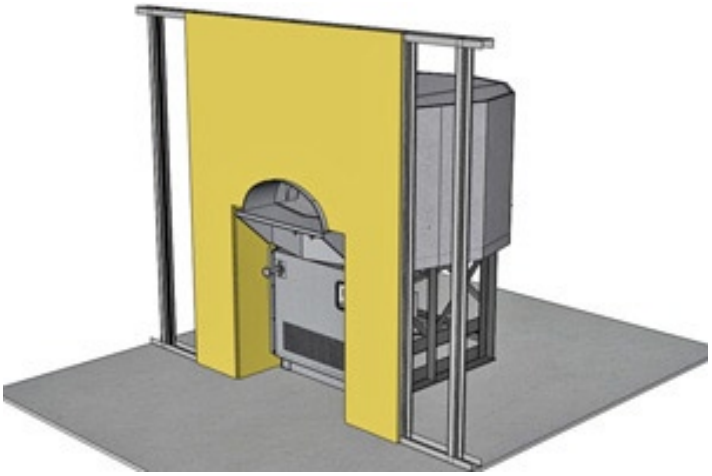


A facade will make for a functional installation as long as the following conditions are met:
1. Service can be performed from the **FRONT** of the oven by removing the **Storage Box Facade Extension.**
2. There is sufficient airflow from the front of the the house.
3. The Radiant Control Knob is accessible (see **Radiant Knob Detail** on **page 6**).

AIRFLOW DETAIL

Air flows to the under part of the oven through perforated sections in the upper sections of the sides of the storage box extensions.

This area must be free of obstructions to allow proper airflow. The burners in the gas oven will not operate without sufficient combustion air. To avoid common installation mistakes that affect airflow, please read through the **Do's and Don'ts of Oven Venting** (found on the website)**.**



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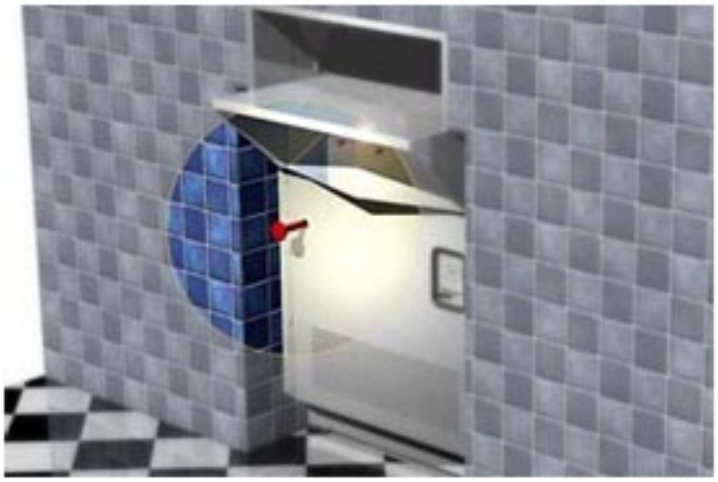
ARCHED WALL WITH FACADE EXTENSIONS -- SPECIAL DETAILS (CONTINUED)

RADIANT KNOB DETAIL

Note: The site-built doorway extension is welded snug to the doorway lip and does not block airflow out of the oven. The flange around it also allows room for the wallboard, tile and stud construction (**'A'**). Everything that touches the oven (and the mantle) must be non-combustible. Everything over the doorway must be non-combustible.



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