

Revised March 8, 2007

Wildacres 2007

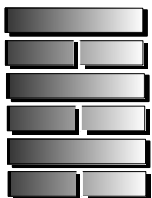
Heater Research and Testing Workshop

Heater Assembly Diagrams

Instructors:

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**Masonry Stove
Builders**

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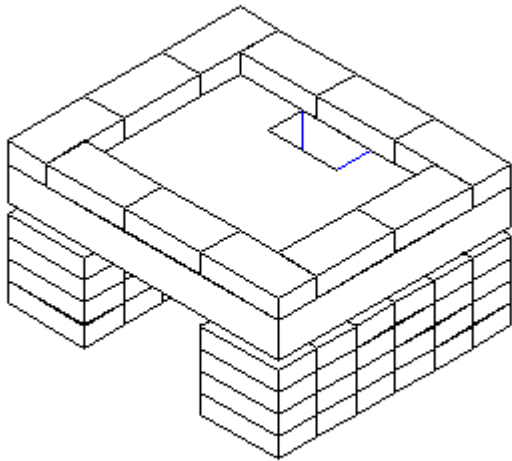
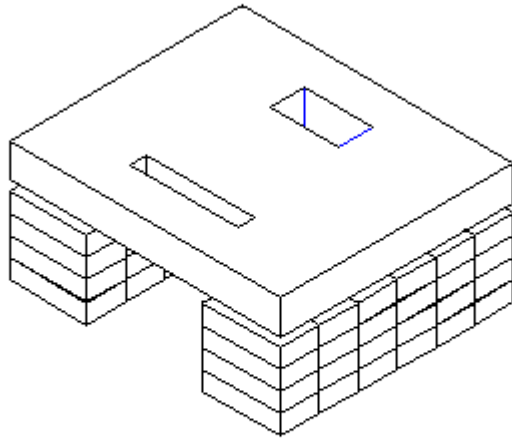
Fax 819.647.6082

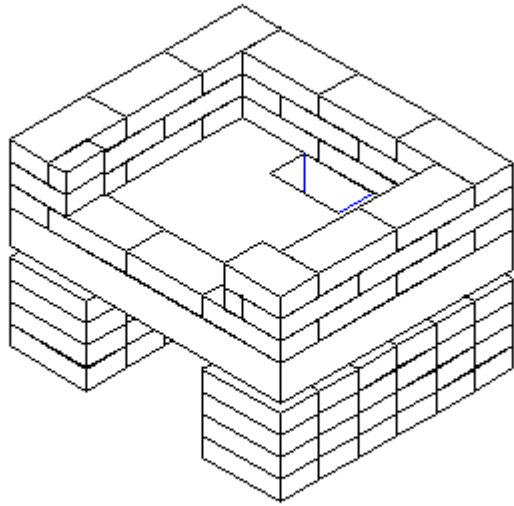
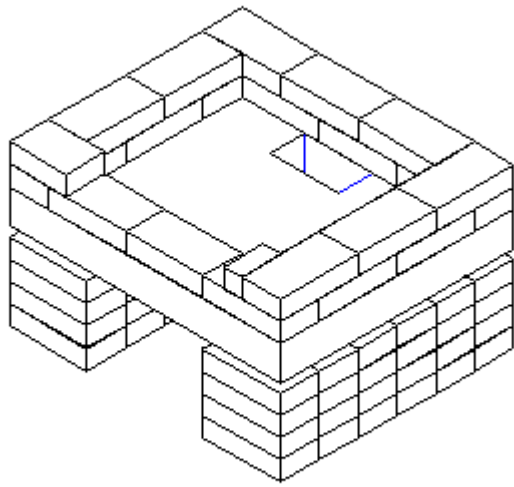
email mheat@heatkit.com

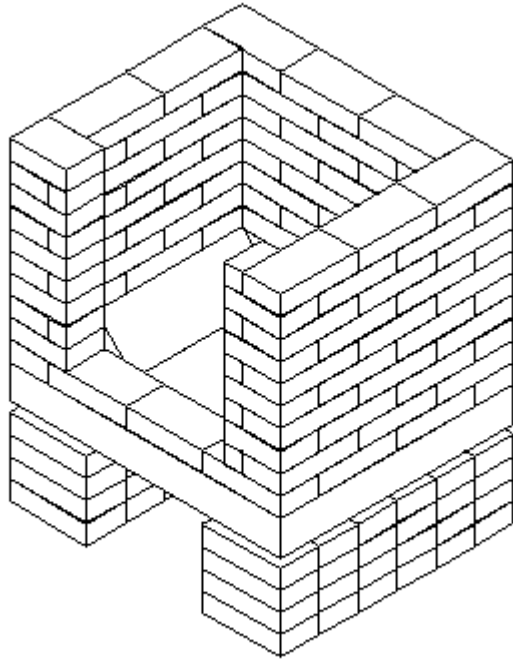
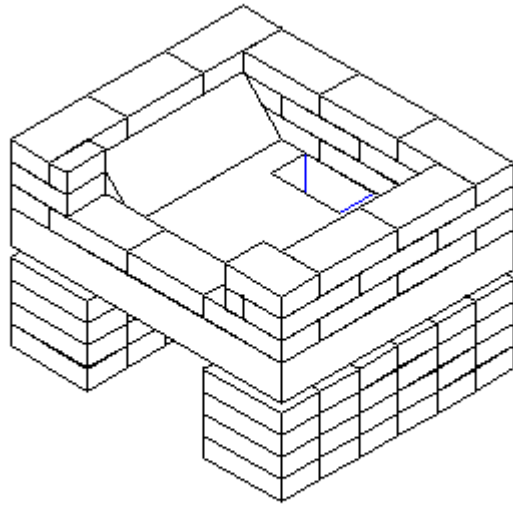
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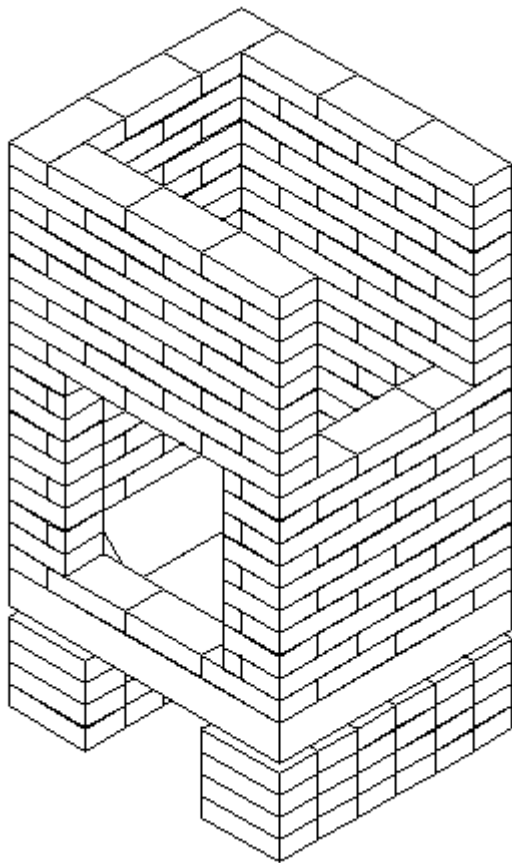
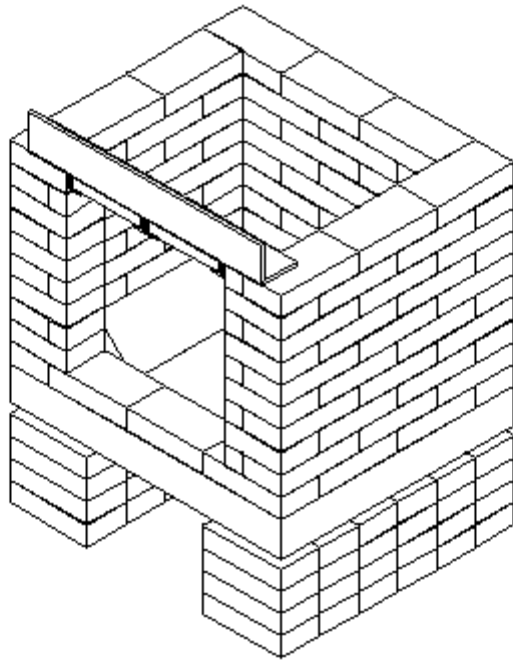
The object of the workshop is to build and test a heater to demonstrate several important aspects of heater performance:

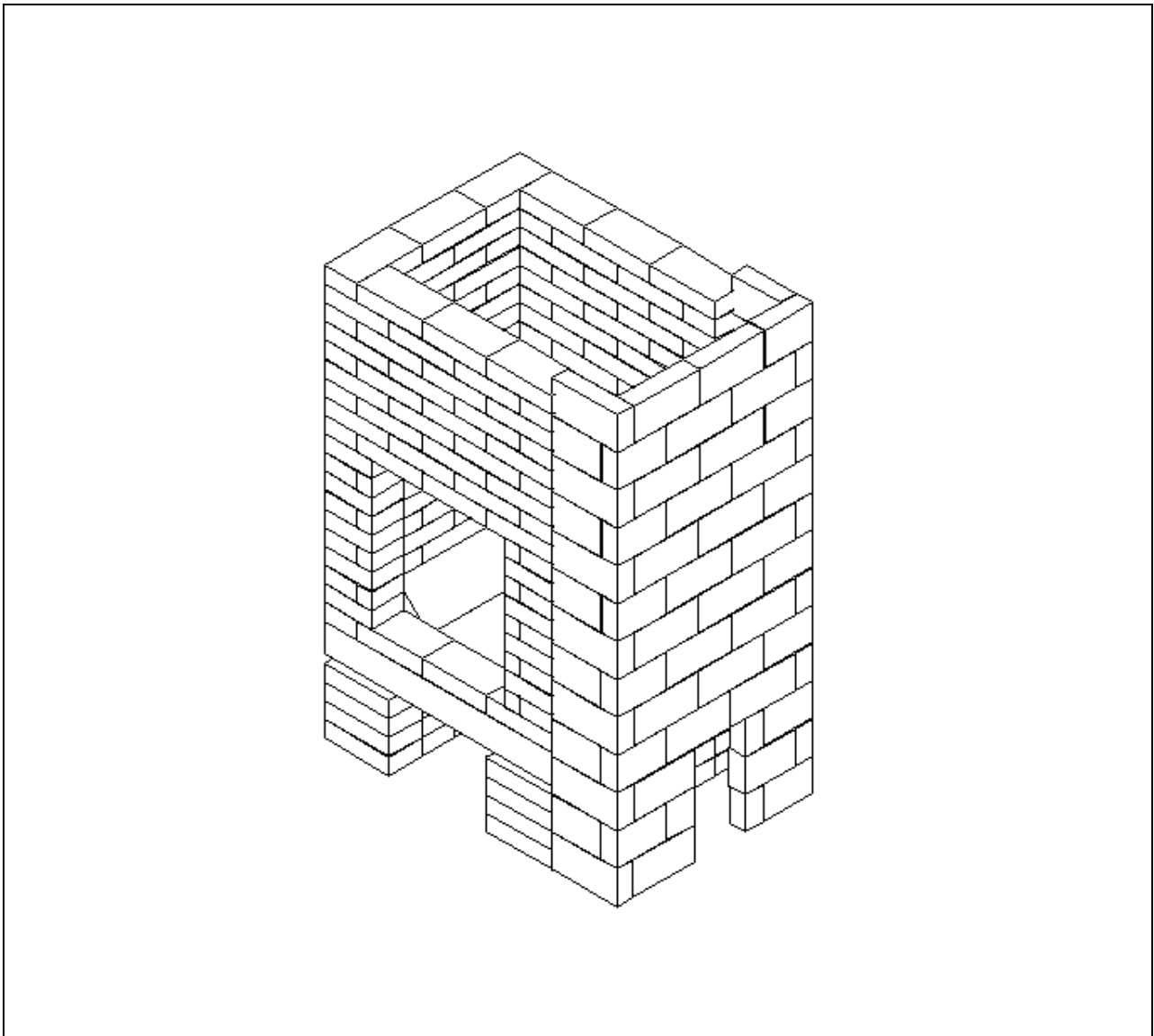
- Effect of air supply
- Demonstrate traditional Austrian “Sturzzug” (downdraft channel after firebox) configuration. Experiment with secondary air injection into downdraft channel
- Demonstrate the difference between downdrafting and updrafting heat exchange channels
- Test the performance of standard 8”x12” terracotta flue liners as downstream heat exchange channels under stress conditions.
- Perform a flue gas analysis and evaluation of the performance of the heater under different configurations. Learn what the different gas curves mean, and how this might be used to analyze the performance of the heater and tune the design.

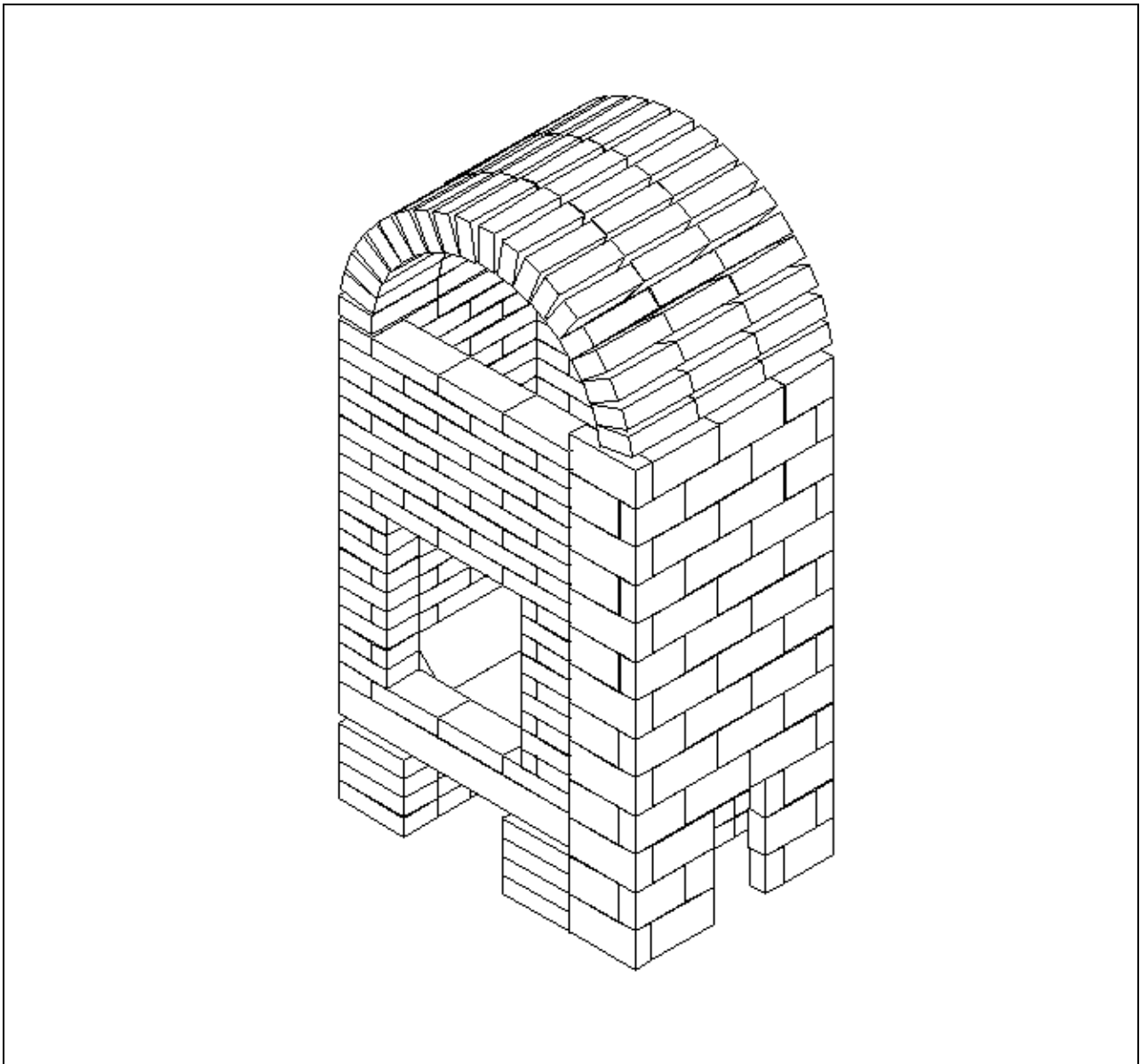


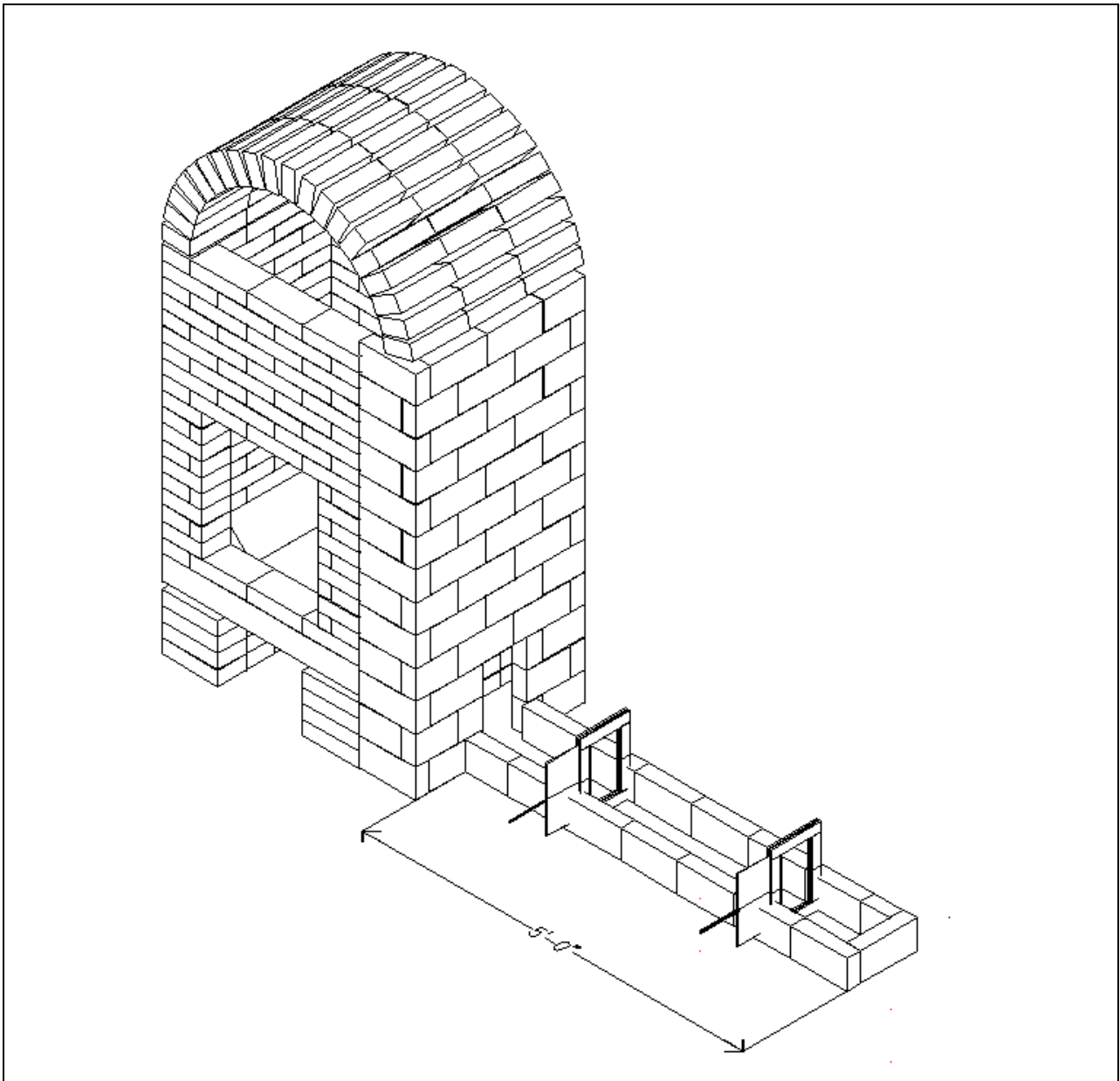


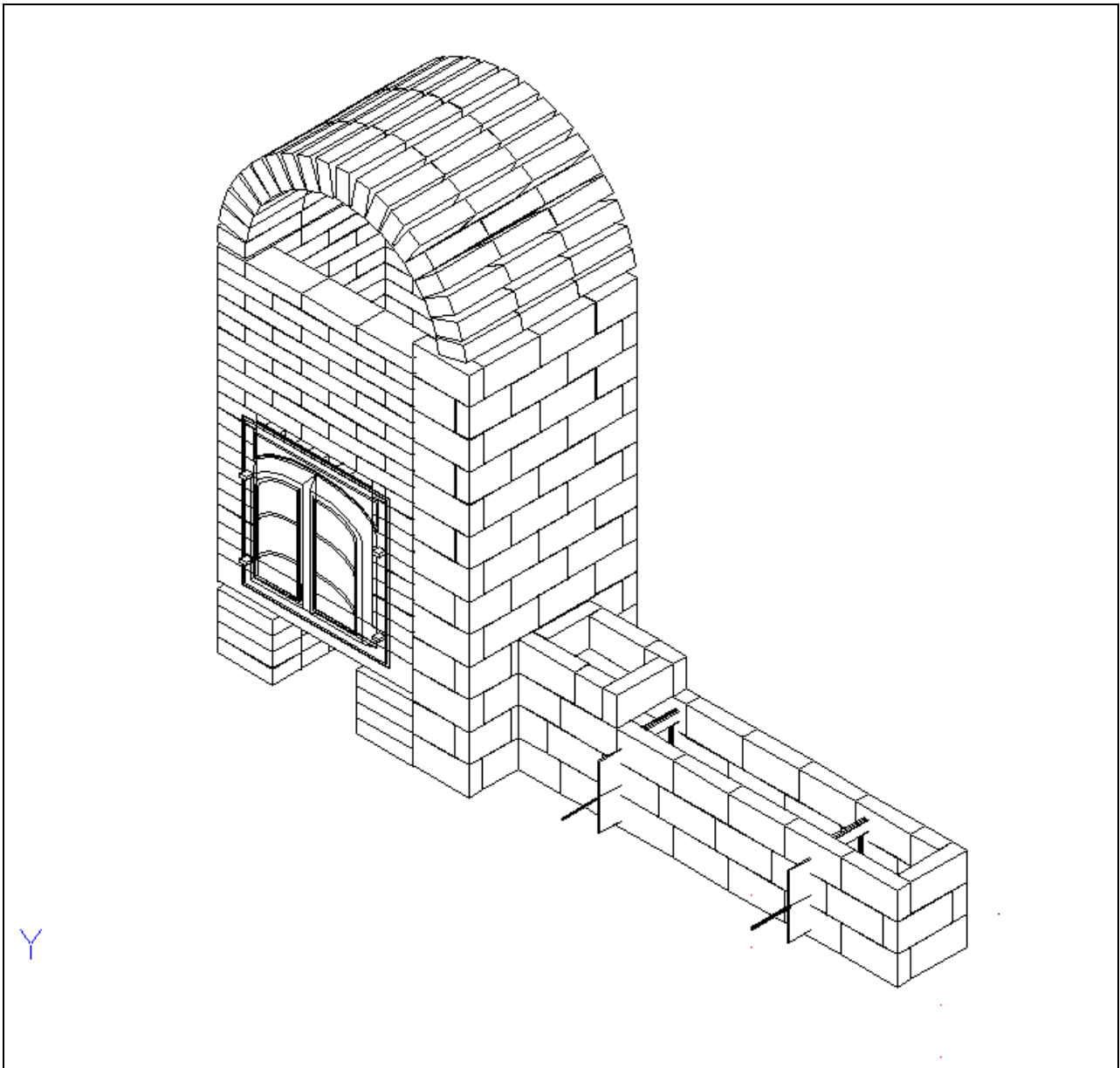


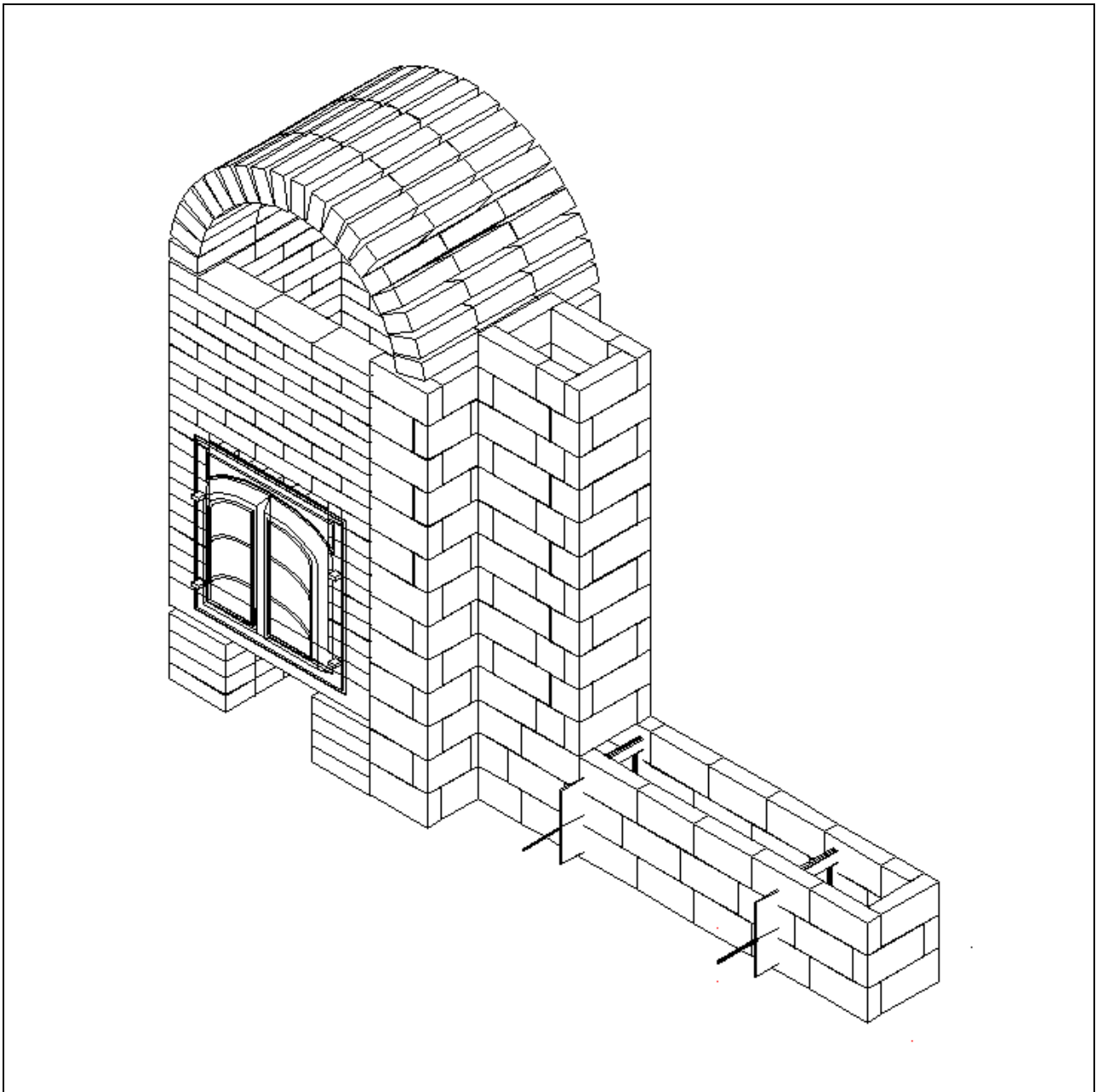


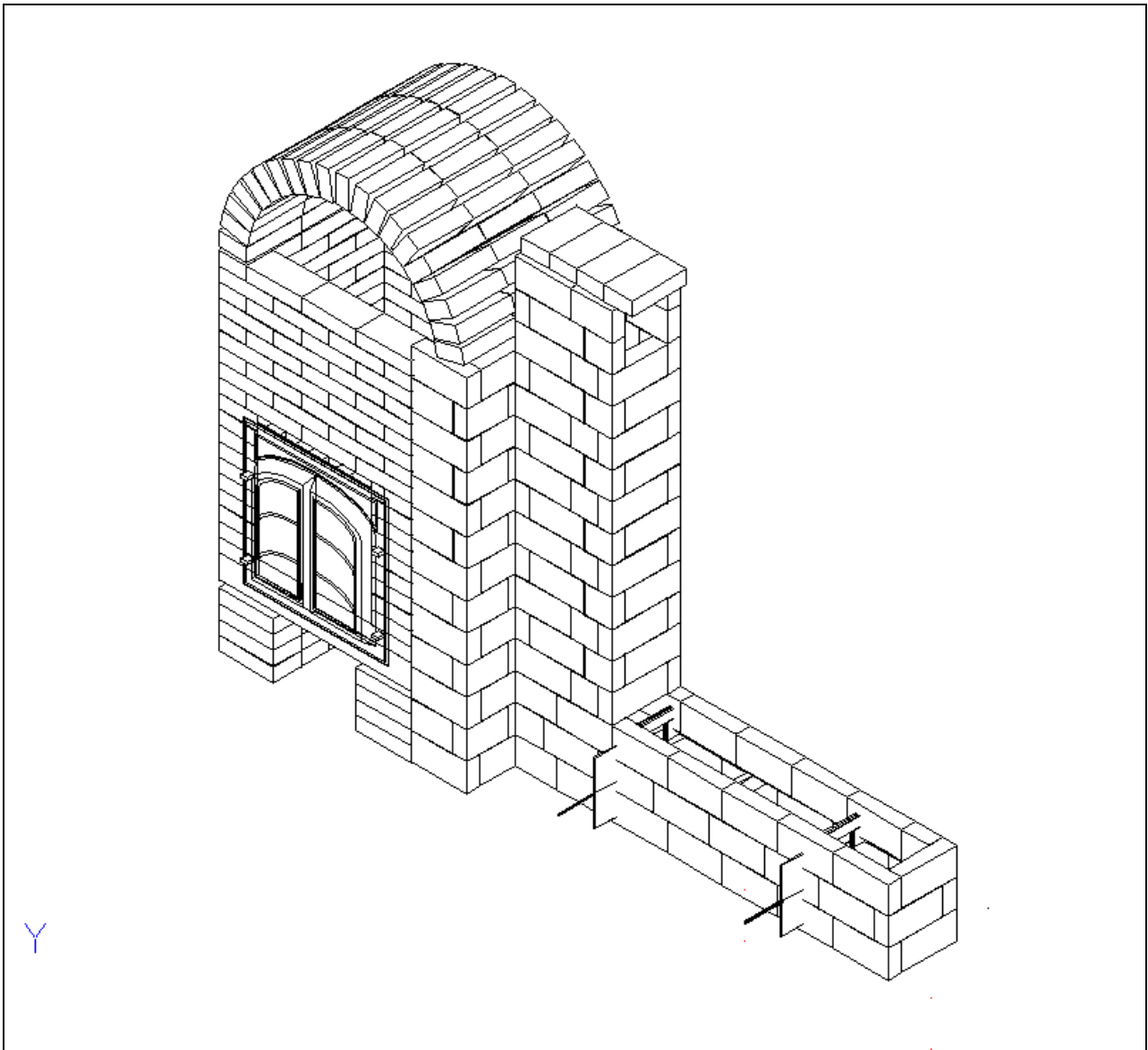












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