

Masonry Contest

Purpose:

To evaluate each contestant's preparation for employment and to recognize outstanding students for excellence and professionalism in the field of masonry.

Clothing Requirements:

work shirt and pants, work shoes, and safety glasses or goggles.

Eligibility

Open to active SkillsUSA members enrolled in career and technical programs with masonry or bricklaying as the occupational objective.

Equipment and Materials:

1. Equipment supplied by Local 9
 - a. Tenders
 - b. Hose
 - c. Three 55-gallon water drums
 - d. Mortar pans, boards, pails, and wheelbarrows
 - e. Hoes
 - f. Square-nosed, short-handled shovels
 - g. Sand
 - h. Masonry mix or ready-mixed mortar
 - i. Resin paper or suitable area covering
2. Equipment supplied by the contestant:
 - a. One trowel
 - b. Two levels (24" and 48")
 - c. One "S" jointer
 - d. One brick hammer
 - e. Two 6-foot folding rules (one modular, one standard)
 - f. One carrying bag
 - g. One pencil
 - h. One square
 - i. One brush
 - j. One brick chisel
 - k. Line and line blocks
3. Materials
 - a. (7) 8" CMU
 - b. (2) 4" CMU, solids
 - c. (1) 4" CMU, halves, solids
 - d. (75) modular brick
 - e. (4) uncured modular brick

Contest Specifications:

Contestants will construct a project or wall system using brick or brick and block, according to project specifications and drawings within an allotted period of time.

1. Plumb
 - a. Use straightedge and level to find exact plumb at each of 8 locations
2. Levels
 - a. Use straightedge and level to find exact level at each location
3. Square and Range
 - a. Measure outside dimensions on the diagonal sections indicated
 - b. Use straightedge to check range (alignment) on the front of the project
4. Measurements
 - a. Horizontal measurements should be made on the face of the second course
 - b. Vertical measurements should be made from the floor at the point shown on the drawing
5. Correct Design
 - a. Layout
 - b. Followed drawings and specifications
6. Manipulation
 - a. Manner in which contestant uses and cares for his tools
 - b. Contestant's safety practices while cutting brick
 - c. Contestant's manner with tools not in use
 - d. Preventing broken brick and other debris from being a hazard
7. Tooling neatness
 - a. All joints are to be struck and brushed as finished masonry
 - i. Only a brush may be used to enhance appearance. No oil, additives, carpet, sponge, etc.

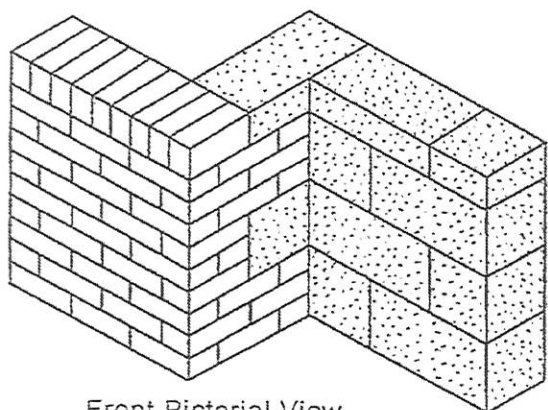
Masonry Scorecard

Contestant # _____

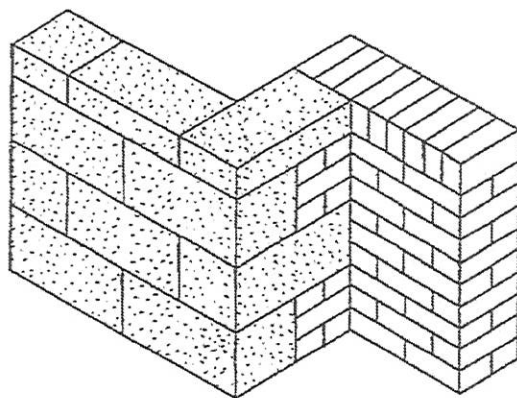
Items Evaluated	Comments	Possible Pts	Earned Points
Measurements		20	
Level		20	
Plumb		20	
Tooling and neatness		20	
Correct design		20	
Square and range		20	
Manipulation		20	
Full & uniform joints		20	
Total		160	

Clothing Penalty 0 to -50
 Safety Penalty Up to -50
 Time Penalty Up to -50

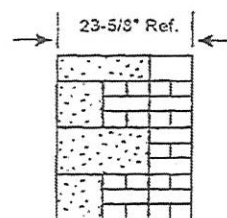
MASONRY PROJECT #17



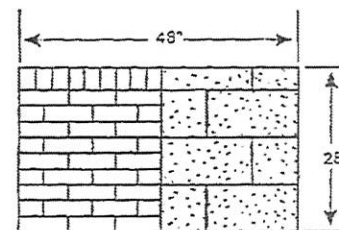
Front Pictorial View



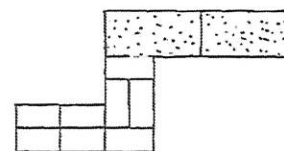
Rear Pictorial View



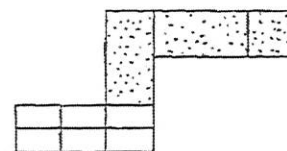
Back Elevation



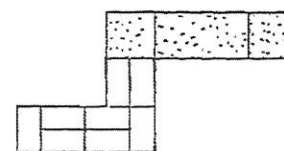
Front Elevation



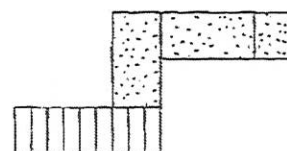
Course No. 1, 3, 7 & 9



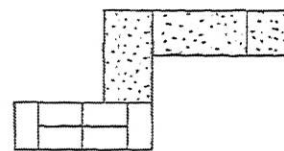
Course No. 5



Course No. 2 & 8



Course No. 10



Course No. 4 & 6

Bon Tool Co. does not guarantee the accuracy of the data.
Please report errors and submit suggestions to Bon Tool Co.

INSTRUCTIONS

1. Build wall as shown.
2. Use first course of brick to level project.
3. Coursing height to be 3 brick in 8" from top of first course.
4. Fill all head, bed and collar joints.
5. All joints are to be concave and finished on all sides.
6. Cleaning to be done by brushing only.

MATERIALS REQUIRED

1. 75 Bricks
2. 7 concrete Blocks (8"x8"x16")
3. 1 solid concrete block (4"x 8"x 8")
4. 2 solid concrete blocks (4"x 8"x 16")

Bon Tool Co.

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