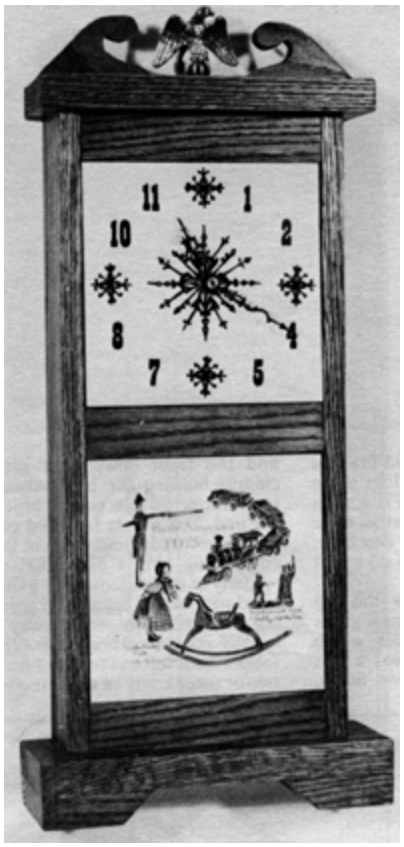
Project 12441EZ:
Tile Clock



This attractive clock will be a fine addition to a colonial setting or nearly any room in the house, from den to nursery. It's a project that's surprisingly easy to build; in fact the work can be completed in just one afternoon.

Except for the back (H), the dial board (I), and the decorative scroll (G), all parts are made from 1" (1/4" actual) pine. If possible, when choosing boards, select stock that's reasonably free of knots. Of course, other wood species are also suitable, particularly the hardwoods. Walnut results in a rich dark look while maple or birch is much lighter. Oak and mahogany are also good choices. With a project like this, there's no hard and fast rule that predetermines the particular type of wood. The choice is left to the individual woodworker.

Tile Clock Materials List

Part	Description	Size	No. Required
A	Side	3/4" x 2-1/8" x 15-7/8"	2
B	Center Rail	3/4" x 1-3/4" x 6-1/16"	1
C	Rail	3/4" x 1-1/2" x 6-1/16"	2
D	Top	3/4" x 3" x 8-1/4"	1
E	Bottom	3/4" x 3" x 9"	1
F	Foot	3/4" x 3" x 2-3/4"	2
G	Scroll	See Detail	2
H	Back	1/4" x 6-1/16" x 15-7/8"	1
I	Dial Board	1/4" x 6" x 6"	1
J	Movement	Obtain from clock maker's supply store	1

Tile Clock Step-by-Step Instructions

1. Cut the two sides (A) to size from a single piece of stock about 3' long.
2. Cut a 1/4" x 1/4" rabbet on both edges with a router, table saw, or radial arm saw.
3. Cut the center rail (B) and the upper and lower rails (C) from a single piece of 1-3/4" wide stock about 2' long.
4. Cut a 1/4" x 1/4" rabbet on both edges.
5. Cut the stock into three pieces, each measuring 6-1/16".

6. Remove one of the rabbets on parts C by cutting it flush on the table saw.
7. Cut a 1/4" x 1/2" rabbet on both ends of all three pieces.
8. Glue and clamp together parts A, B, and C, making sure parts A are square to parts B and C.
9. Cut part D to size.
10. Use countersunk 1-1/2" x #8 flat-headed screws to attach part D to parts A where the screws will be covered by parts G (see drawing).
11. Cut part E to size.
12. Drill 3/8" diameter by 3/4" deep holes in the bottom of parts A.
13. Insert dowel pins in the holes of parts A.
14. Use dowel pin centers to mark the location of the holes to be drilled in part E.
15. Drill 3/8" diameter by 3/4" deep holes in part E.
16. Use 1/4" diameter wood dowel pins and glue to attach part E to the case.
17. Cut a 45-degree angle bevel on one side of parts F.
18. Glue parts F to part E.
19. Transfer the profile of parts G from the detail onto 1/2" thick stock.
20. Cut the stock with a jig or saber saw.
21. Use 1/4" diameter by 1/2" long dowels to attach parts G to part D as shown.
22. Cut part H and part I to size from 1/4" plywood, making sure they are square.
23. Sand all components completely. **NOTE: Remove planer marks and excess glue.**
24. Round all corners to simulate years of wear (optional).
25. Use 220-grit paper to sand all components.
26. Purchase all clock hardware and parts from a clockmaker’s supply store.
27. Cut a piece of 1/4" plywood to support the paper number dial.
28. Glue the number dial to the plywood.
29. Glue the plywood to the clock case.
30. Drill a hole through the dial board (I) for the movement shaft to extend through.
31. Thread a locknut (which should be included with the movement) on the movement shaft to secure it to the dial board.
32. Use any ornament you desire at the top.
33. Use four back locks to hold the back in place.
34. Mount a hanger with contact cement.
35. Stain as desired.
36. Apply two coats of polyurethane varnish, rubbing down with steel wool between coats.
37. Apply a final coat of varnish and rub down with 0000 grade steel wool.

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