



**Introduction**

Kiva Design's Garden Towns products are a family of documents containing patterns and instructions for constructing a wide variety of 1/24th scale model buildings and accessories. This scale matches the popular Large Scale Garden Railways.

Although the buildings are compatible with Garden Railways, they may also be used in flower gardens or as a back-drop toy for a child. Build a town complete with roads, shrubs, lights, ponds or whatever you like. It's a fun family project.

There's a range of buildings covered. Each Garden Towns product describes either just one building - such as the church, the railway station or the barn - or a family of buildings, such as flat-roofed houses, small town buildings or houses with 60-degree roofs or the water tower.

All our designs are provided as downloadable documents which you can print from your computer as many times as you want (once you've paid). The documents are in Adobe Acrobat "pdf" format, and so they can be printed by just about any computer on just about any printer.

**Tools and Skills Required**

The buildings are fairly simple structures, requiring just basic woodworking skills and tools, although some buildings will require you to miter some components (for example, the roofs of the 60 degree Roof Houses)

The buildings may be constructed from anything convenient, but the instructions assume you'll want to use quarter-inch ply for the structures and 1/8th inch thick wood for doors and windows.

**Finishing and Detailing**

Our plans leave the final details to you. You can simply paint the models, or you can take advantage of the many items on the market, such as scaled wood shingles, sidings, stones, bricks, etc. which can be used if you wish. See our few experimental ideas you may want to try from the Hints and Tips section. Better still, cook up your own ideas and share them if you wish. Whatever you do, your buildings will be unique.

**Doors and Windows**

You have a choice for doors and windows. You can build them yourself, using your own ideas. Or you can buy commercial products. Or you can use our plans and suggestions; if you choose to do this, you'll find you can re-use the patterns indefinitely - jut print another copy whenever you need.

**Contacting Us**

Our website is [www.kivadesigngroupe.com](http://www.kivadesigngroupe.com)

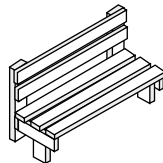
You can email us at [feedback@kivadesigngroupe.com](mailto:feedback@kivadesigngroupe.com)

There's a KivaNews email newsletter that you can sign up for on the website

**Yard Accessories Patterns**

**Garden Bench**

A simple little addition for the porch or yard of your house or store. Made from 1/8" Balsa wood or hardwood. Can be made from 21" of 1/4" strips. Overall size: 1-1/2" high x 2-1/2" long

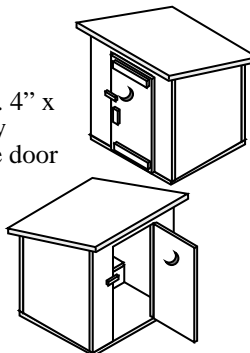


**Garden Bench - Free!**

**Free Sample!**

**Outhouse**

(a two holer, no less!) Made from 1/8" Balsa wood or hardwood. 4" x 25" will make one. You can purchase tiny hinges to make a working door or glue the door in an open position. Overall size: 4" high, 3" wide, 2-3/4" deep



**Outhouse - Free!**

**Free Sample!**

Things to know and things to try

**Food for Thought  
&  
Room for Feedback**

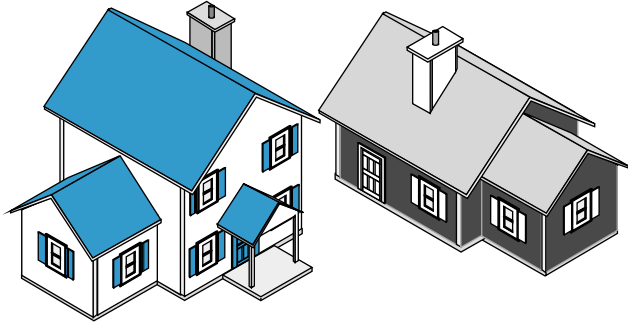


a FREE! downloadable document with some of our ideas and hints. Send us feedback via email so we can add your ideas (we give credit to originators!) and share them with everyone!

**kiva design**  
G R O U P E

PO Box 1266 • Cedar Park • TX 78630-1266 • USA  
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## 45° Roof Houses Series



### Small Houses

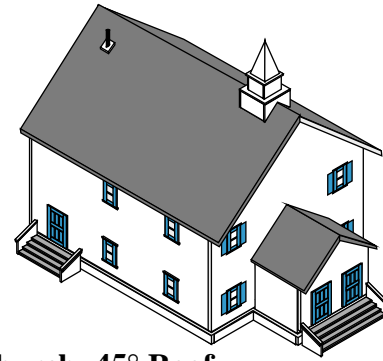
Eight houses illustrated to choose from  
 Basic Foundation: 10" x 10-1/2" plus addition, porch or ground chimney if used.

1 Story Walls: 5-1/2" high      Roof peak: 10-1/2" high  
 2 Story Walls: 10" high      Roof peak: 15" high

Patterns include:

- Walls, foundation & roof
- Room addition
- Porch
- Chimneys (rooftop or ground type)
- Dormer

**Small 45 ° Roof Houses , 44 Pages-**



### Country Church -45° Roof

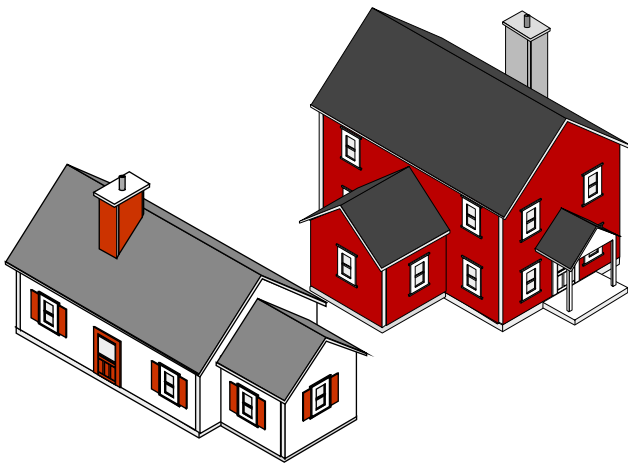
Foundation: 18" x 26-3/4" (including vestibule)

Walls: 12" high      Roof Peak: 21" high  
 with room addition for vestibule, stairs and steeple

Patterns include:

- Building
- Stairs
- Steeple

**Country Church, 22 Pages**



### Large Houses

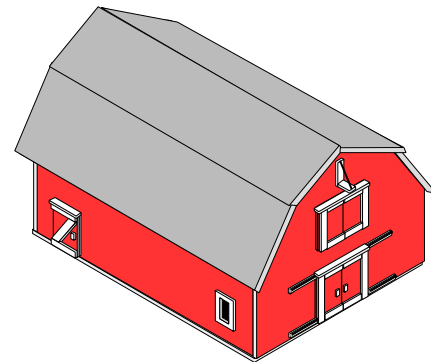
Nine houses illustrated to choose from  
 Basic Foundation: 10" x 15" plus addition, porch or ground chimney if used.

1 Story Walls: 5-1/2" high      Roof peak: 10-1/2" high  
 2 Story Walls: 10" high      Roof peak: 15" high

Patterns include:

- Walls, foundation & roof
- Room addition
- Porch
- Chimneys (rooftop or ground type)
- Dormer

**Large 45° Roof Houses , 46 Pages**



### Little Red Barn

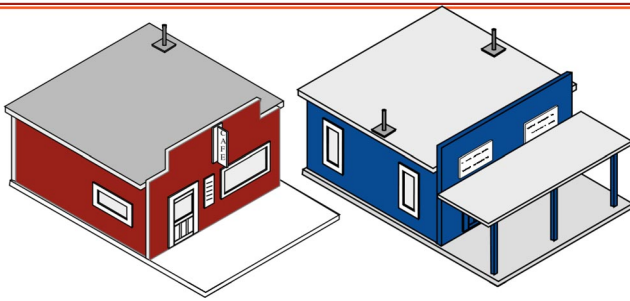
Foundation: 14" x 18-1/2"

Walls: 6" high with 13-3/8" peak

Patterns include:

**Barn Building complete with its own doors and windows**  
**20 Pages**

*Note: do not order Garden Town Doors and Windows to use with Little Red Barn*



### Small Town Buildings 1 Story

Foundation: 10" x 15" (including porch)

Walls: 5-1/2" high with 7-1/2" front

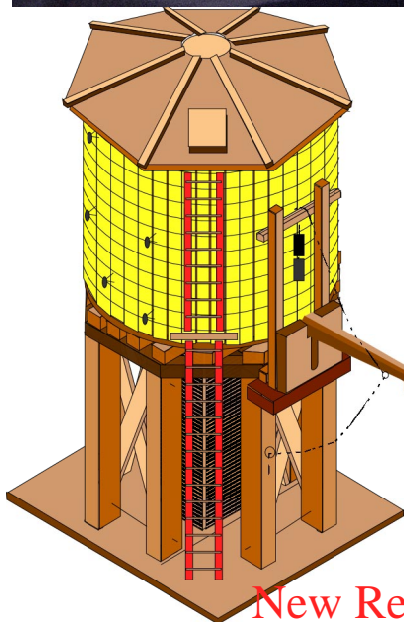
5 Buildings illustrated: Barber, Store, Cafe, Bakery, and Shoe / Western Union duplex.

Patterns include:

- Walls (choice of plain or stepped fronts) foundation and roof
- Porch
- Signs and Barber Pole

**Small Town Buildings, 23 Pages**

We built one of our Large Town Buildings and finished it off as a Hotel (even if the downstairs window placements differ a little). This is finished in a simple manner - just painted, with the the Kiva Design Doors and Windows. (And you may be able to see the Garden Bench on the porch.)



### Bill's Water Tower

Foundation: 7.5" x 7.5"

Model: 17" high

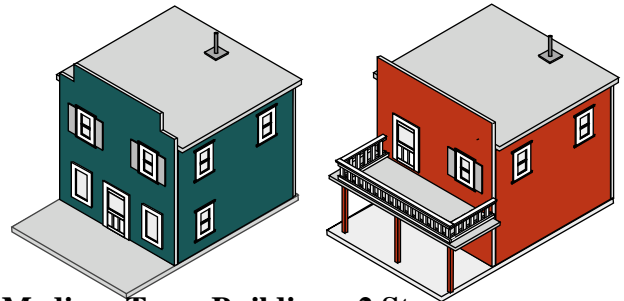
A classic water tower, inspired by a model by our friend Bill.

**Bill's Water Tower , 18 pages**

**New Release June 2000!!**

### Town Buildings - Flat Roof Series

These buildings are for businesses. They are "named" for identification purposes only. You can name yours anything you choose



### Medium Town Buildings 2 Story

Foundation: 10" x 15" foundation (including porch)

Walls: 10" high with 12-1/2" front

6 Buildings illustrated: General Store, Hardware, Bank, Betty Jean's Dresses, Grocer and Assayer / Attorney duplex.

Patterns include:

- Walls (choice of plain or stepped fronts), foundation and roof)
- Porch with optional rail
- Signs

**Medium Town Buildings , 30 Pages**

### Large Town Buildings 2 Story

Foundation: 10" x 20" (including porch)

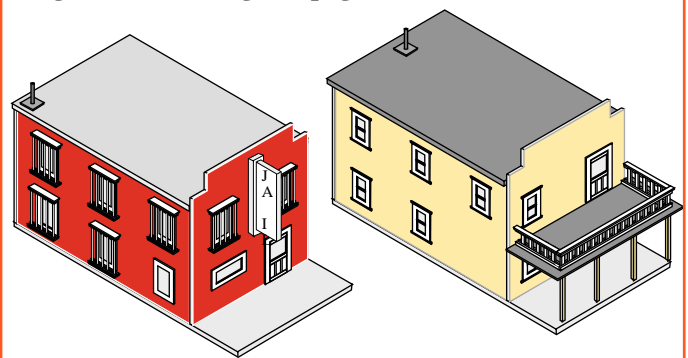
Walls: 10" high with 12-1/2" front

6 buildings illustrated: Jail, Saloon, General Store, Hotel, Drugstore and Jewelry / Tailor duplex.

Patterns include:

- Walls (choice of plain or stepped fronts), foundation and roof
- Porch with optional rail
- Signs

**Large Town Buildings, 31 pages**





## 2 Story Houses with 60° Roof

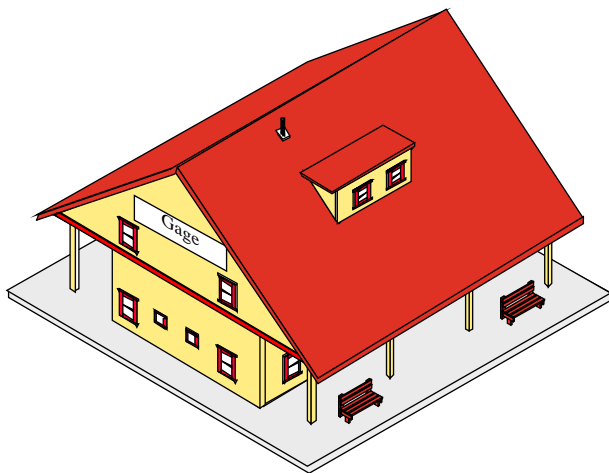
Foundation: Basic 10" x 15-1/2" plus optional additions  
 Walls: 10" high with 18-21/32" roof peak

6 houses illustrated

Patterns include:

- Walls, foundation and roof
- Room addition
- Porch
- Chimneys (rooftop or ground)
- Dormers (not shown)

2 Story Houses with 60° Roof , 38 Pages



## Railway Station - 45° Roof

Foundation: 36-1/2" x 38'(including platform)  
 Walls: 9" high Roof Peak: 25" roof peak  
 Porch overhang on 2 sides, Dormer

Patterns include:

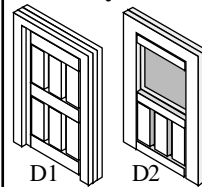
All patterns for building Railway Station

Railway Station ,22 Pages

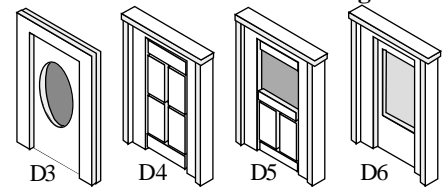
## Garden Town Doors and Window Series

Overall dimensions of all doors are 2-1/4" w x 3-7/8" h

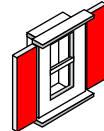
### Layered Doors



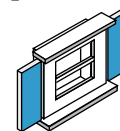
### Doors with Facings



### Windows with optional shutters



W1  
1-3/4" x 2-3/4"

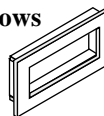


W2  
2-1/4" x 2-1/4"

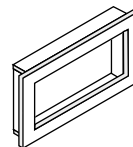


W3  
2-1/4" x 3-1/4"

### Plain Windows



W4  
1-3/4" x 3"  
Small Display  
Can be installed  
Horizontally or  
Vertically



W5  
2-1/4" x 3-3/4"  
Large Display  
Can be installed  
Horizontally or  
Vertically



W6  
1-1/2" x 1-1/2"  
Dormer

All are non-opening type

Doors and windows you can make for the houses and buildings are all from this series.

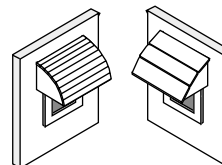
Patterns, templates and instructions:

6 Doors and 6 Windows as illustrated plus accessories listed below.

### Accessories for doors and windows

#### WA1

Awnings for windows up to 2-3/8" wide



•Awnings - 2 types to fit any Garden Town door or window except the small dormer window.

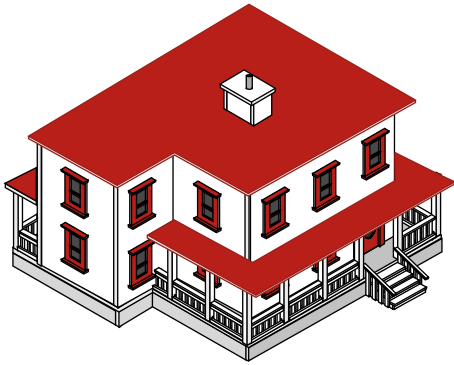
#### WA2

Bank or Jail Bars for Window # 4 when installed vertically



Bank or Jail Bars which fits medium display window W4

Doors and Window Series, 57 Pages



## Country House with wrap around porch

Overall Dimensions:

Foundation & porch 19-1/8" x 16"

House: 17-1/8 x 12-1/4"

Height: 12-1/8"

Patterns include:

- Walls, foundation and roof
- Porch with rails and stairs
- Chimney (rooftop)

### Country House with wrap around porch, 30 Pages - \$9

With Garden Town Doors and Windows Series - Add only \$4

To give you an idea as to what supplies and tools you'll likely need for the projects, the following pretty well covers the scenario

## Supplies

*Specifics for each building are in the Supplies Section of the booklets*

1/4" Plywood (Lumber store)

- Houses and Buildings

*The only building which requires more than a 4' x 8' sheet of plywood is the Railway Station, which takes an additional 4' x 4'. The Church takes a 4' x 8'. All the rest can be built with a 4' x 4' piece each.*

1" Furring Strips (Lumber store) -

- Frame for Houses and Buildings

1/8" thick Balsa wood or Hardwood (Hobby shops- a common size board is 4" x 36". Also comes in various width strips)

•Doors and Windows (non-opening) if you make your own from patterns included with the houses and buildings

- Porch rail for flat roof 2 story buildings

Plastic glazing - (Hobby shops, often in the framing area. Comes in standard frame sizes (5" x 7", 8" x 10", etc.) and can easily be cut with scissors.

- Window panes

Purchased Doors and Windows- (Hobby shops or mail order; check Garden Scale train supplies. If you want opening type or do not wish to make your own doors and windows)

Wood Dowel (various diameters) (Hobby shop)

- 1/8" Bank or Jail Bars
- 1/8" or 1/4" Rooftop pipe for stores
- 1/4" or 3/8" Barber Pole

Wood glue suitable for outdoor use

Paint or Stain - We recommend the water based acrylic paints which can be found in a multitude of colors at hobby and craft stores.

Sealer: - Either a water base varnish which is sold with the acrylic paints, polyurethane or equivalent. Use outdoor quality.

5/8" Staples or Brads and

2" Finishing nails

- Houses and Buildings

**Optional:**

Wiring and Lights - (Hobby shops -install by manufacturer's instructions.

Stick on letters for signs - (Hobby shop)

Trims of your choice - (Hobby shop- choices vary)

## Tools

**For Plywood or Hardwood**

Saw -( for cutting small wood pieces, a jigsaw or coping saw)

Drill -(optional for pilot holes)

Hammer (or Stapler or Air gun if you have one)

T-square

Level

Clamps

Ruler & pencil (for small parts, a see-thru ruler with grids is helpful)

**For working with Balsa wood:**

Xacto knife and metal ruler for guide.

In addition to cutting out pieces, you can make strips by measuring and cutting with these tools. This is where a see-thru ruler with grid is a bonus.

**Optional:**

Balsa stripper - a handy little tool for making uniform strips from 4 x 36" "boards". You can make 1/8", 1/4", etc. strips in one long easy cut. This inexpensive tool is a big time saver if you need a lot of strips, such as for windows or a porch rail. (You can also opt for buying ready made strips).

Small clamps.

The Xacto clamps for small pieces are very handy.

We've included a pattern for a very simple assembly frame to use when working with small pieces. It can be made from a 12-3/4" x 12-3/4" piece of scrap plywood (or equivalent) and some 3/4" furring strips (or whatever size strips you may have laying around). Often, there will be enough of these materials left over from the buildings to make the frame. If there won't be enough, we'll tell you how much extra you'll need for it in the supplies section in case you want to make one.