



HINES STAIR SHOP

101 East Main Street • Kirkland, IL 60146-0400
Phone: (847) 403-3310 • Fax: (847) 229-3616
www.hinessupply.com

PRE-FABRICATED STAIR SPECIFICATIONS

Typical Box Basement Stair:

Material Specification:

Stringers: 5/4 x 10" #2 SYP

Risers: 3/4" x _ #3 Pine (include PP, SYP, or SPF)

Treads: Nominal 1" SYP Stepping, Full Bullnose

Drywall Stop: 1x_ Pine or an other suitable material 3/4" thick

Main Stair:

Stringers: 5/4 x 10" Material of Choice

Choices: 5/4 x 10" #2 SYP

5/4 x 12" Primed FJ Poplar

5/4" x 10" Raw Poplar (Special Order)

5/4" x 10" FJ Oak Veneer (Special Order)

5/4" x 10" Solid Oak (Special Order)

Risers: 3/4" x _ Material of Choice

Choices: 3/4" x _ #3 Pine

3/4" x _ Paint Grade Birch Plywood

3/4 x _ Oak Plywood

Treads: Nominal 1" Material of Choice

Choices: Pine

Oak Veneer (Special Order)

Solid Oak (Special Order)

OSB

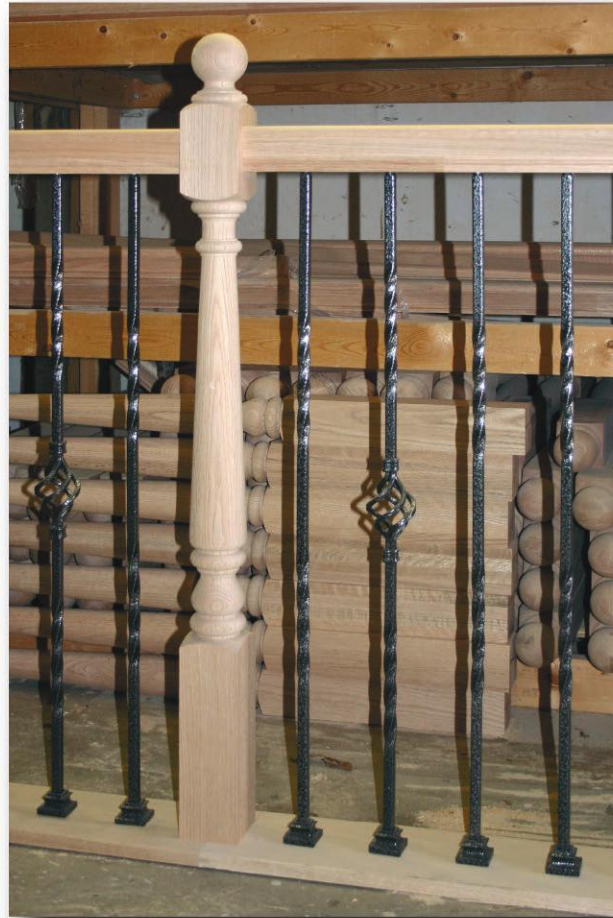
Wedges: 3/4" wide material stock

Hardwood Wedges for Hardwood Stair Assemblies

Softwood Wedges may be used on Softwood Stair Assemblies

Length to support 80% of tread width

Wedges shall be cut parallel to grain



PRE-FABRICATED STAIR CONSTRUCTION MATERIALS

Stringers:

- As specified for material and grade
- All Stringers precision routed to the nearest 1/16" of rise based on the number or risers divided into the overall rise
- All Stringers shall have minimal defect on the top visible face and interior side face exposed above tread height
- Stringers shall be cleanly routed deficient of tear-out or feathered undercuts at finish face
- At bottom/start of stairs all stringers shall be cut cleanly and plumb with first riser 2" from face of riser
- At top/end of stair flight all stringers shall be cut cleanly and plumb with rear of last riser, all will include landing riser and landing tread nosing applied unless otherwise specified

Risers:

- As specified for material and grade
- All risers will be cleanly ripped and cut to produce an accurate width of stair
- Defects in face will be limited to in-grade specification per job. Any material grossly in defect will be culled

Treads:

- As specified for material and grade
- All treads will be cleanly ripped and cut to produce an accurate width of stair
- Top face of material will be observed, as some products have obverse faces

Fasteners, Mechanical and Chemical:

Chemical:	Chemical: Glues conforming to ASTM D-3498, ASTM C-577 or APA-AFG-01	
Mechanical:	Staples 1 1/2" Narrow Crown	Pneumatically driven
	Nails 2 3/8" .113 Dia. (8d)	Pneumatically driven

FABRICATION SCHEDULES:

- All stringers shall be routed to receive risers and treads
- Treads and Risers shall be cut to accurate length and ripped to accurate depth
- All contact surfaces shall receive glue
- Stringers shall be affixed to treads with (4) Pneumatically driven nails
- Risers shall be affixed to rear of treads with (3) staples minimum, 10" o.c. maximum
- Glue Blocks shall be installed to affix riser tops to tread bottoms (3) minimum 4" in length. Glue Blocks shall receive adhesive on two faces and mechanically fastened to the tread with a minimum of (1) staple
- Wedges to have glue applied on three contact faces and driven snugly
- All residual glue shall be cleaned from visible areas.
- Defects from mechanical fastening shall be corrected with acceptable putty.
- Tread shall be inspected to insure it has full contact with riser top. In the event a tread is not seated completely on the riser mechanical fastening is acceptable to prevent future squeaking. Finished Stairs shall receive putty acceptable for the species of material.

PRE-FABRICATED RAIL SPECIFICATIONS

Rails pre-assembled:

Rake Rails to attach to Knee Walls provided By Others

Rake Rails fabricated 32 1/2" Tall

Level Rails to sit on Sub-Floor Flooring provided By Others

Level Rails fabricated 38" Tall

Rail Sections cut to Finished Length in Field By Others

1/2" Tapered Flush Plugs provided

Vertical member spacing to be set so a 4" diameter sphere shall not pass through any portion of the rail assembly

All residual glue shall be cleaned from visible areas.

Defects from mechanical fastening shall be corrected with acceptable putty.

CONSTRUCTION MATERIALS

As specified in Rail Part Specification(s)

FABRICATION SCHEDULE

Top Rail:

Pinned:

Rail to be mill drilled to appropriate diameter to snugly accept baluster

Holes shall be drilled to appropriate depth to insure proper contact surface for adhesive

Rail End Cuts to be mitered or plumb cut as required for rail assembly

Rails mill drilled to be attached to Newels with approved Rail Bolt, plugged and touch sanded

Plowed:

Rail to be plowed to accept fillet and square baluster top block

Rail End Cuts to be mitered or plumb cut as required for rail assembly

Rails mill drilled to be attached to Newels with approved Rail Bolt, fillet applied over bolt bore

Shoe Rail:

1x_ Material

Material to be sized as required for project

Baluster layout as required pre-drilled with countersunk holes to receive screw

Plowed:

Rail to be plowed to accept fillet and square baluster bottom block

Rail End Cuts to be mitered or plumb cut as required for rail assembly

Newels:

Cut to appropriate length for placement in level rails and attached to Rail Shoe w/ (4) 2 1/2" Wood Screws

Cut to appropriate length for placement in rake rails , half lapped and attached to Rail Shoe Leg

with (4) 2" Wood Screws

Baluster:

Pinned:

Balusters cut to appropriate length for correct and suitable rail height

Top of Baluster to be set on Top Rail and pinned+A1

Bottom of Baluster to be set on Shoe Rail fastened with (1) 1 1/2" Screw

Plowed:

Balusters cut to appropriate length for correct and suitable rail height

Balusters to fit in plow, fillet applied between balusters (1) Finish Trim Nail

Balusters affixed to Top Rail with (2) Finish Trim Nails per

At 1x_ Shoe Rail;

Baluster layout as required pre-drilled with countersunk holes to receive screw

