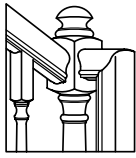


GUIDELINES FOR ORDERING AN ALL WOOD STAIR SYSTEM

The following guidelines are designed to provide an accurate and complete list of components necessary to complete your Wood Post to Post Stair System. This checklist and our Products Catalog will provide the flexibility to comply with most building codes as they relate to handrail height and baluster spacing requirements. The following guidelines will achieve 32" minimum/36" maximum rake rail heights. Always check local building codes before installation. All products in this catalog are for interior installations only.

Item	Guidelines	Page	Item Number	Qty.
SUPPORT SYSTEM				
1	SKIRTBOARD Select LJ-8912 skirtboard at 13" per tread, plus any additional length desired for extension beyond the first and last risers. Select the same quantity of LJ-8950 skirtboard cap (if desired).	80	LJ-8912 LJ-8950	
2	TREADS Select one tread for each step. For a stair open on one side order miter-returned (MR1) and add 1/4" to the skirtboard to skirtboard measurement, then refer to the next longer standard length available. For a stair open both sides order miter-returned both (MR2) and use the finished skirtboard to skirtboard measurement (measured outside to outside). For false treads see page 81.	80-81	10 1/2" x _____ 11 1/2" x _____	
3	RISERS Select one riser for each step. Select one more riser than treads per each flight because of landing tread (see #4). Note: Landing tread replaces the nosing over the last riser. For false risers see page 81.	80-81	7 1/2" x _____ 8" x _____	
4	LANDING TREAD Select sufficient lineal footage for the entire balcony and width of stairs at each landing. Note: LJ-8090-5 is suitable for all newels up to and including those that are 4' square. Larger newel posts might require the addition of a wood strip.	80	LJ-8090 or LJ-8090-5	
5	COVE MOULD Select sufficient lineal footage to go under all tread nosing (including miter-returns) and under all landing tread. Note: cove moulding is not needed under false treads.	80	LJ-8095	
BALUSTRADE				
6	UTILITY NEWEL For stairs with a 30"-34" rake rail height, select the 48" Utility newel for the starting newel at the bottom of the stairway. For 34"-38" rake rail height, select the 58" Utility newel for the starting newel. If handrail and balusters will be installed on both sides of the bottom of the stairway, two of these newels will be needed. See the Post to Post Newel Applications chart at the bottom of this page for further information on Utility Newel applications. If using Box Newels, select one for the starting newel at the bottom of the stairway. If handrail and balusters will be installed on both sides of the bottom of the stairway, two of these newels will be needed.	24-43 44-46		
7	PIN NEWEL Use in the middle of a long rake run of handrail for strength. This newel does not require a handrail fitting. Pin newels are available in two turning styles only.	36,37,40		
8	INTERMEDIATE LANDING NEWEL Select the intermediate landing newel with the 14 1/2" face when not using a landing fitting assembly. If a landing fitting assembly is used, select the 5" face intermediate landing newel. See the Post to Post Newel Applications chart at the bottom of this page for selecting the appropriate Intermediate Landing Newel(s) for your application. Refer to the photos on page 12. If using Box Newels, select an Intermediate Box Newel.	24-43 44-46		
9	SECOND FLOOR LANDING NEWEL Select the 2nd Floor Landing Newel when not using a landing fitting assembly (36" balcony height). 42" balcony height requires the use of a landing fitting assembly. Use the 48" Utility Newel for surface mount when using a landing fitting assembly. If the newel extends below the floor surface, use the 58" Utility Newel with a landing fitting assembly. See the applications chart below... If using Box Newels, select a Box Newel or Intermediate Box Newel for the Second Floor Landing Newel.	24-43 44-46		
10	LEVEL RUN NEWEL A level run, whether on the 2nd floor or at an intermediate landing, must include newel posts. It should match the post selected for the transition from rake to level or rake to rake (whichever is applicable). For a run of 10 feet or more, use a newel at the midpoint or every 5 to 6 feet. Place a newel at every corner.	24-46		
11	HALF NEWEL OR ROSETTES Select the half-newel of the same style as the other full newels selected on the balcony (i.e.: 11" face or 5" face or Box Newel)	24-46		
12	Select the round rosette for all level run rail connections into a wall. Select the oval or rectangular rosette for all angled rail connections into a wall (when the rail meets the wall on a rake).	81		
13	NEWEL MOUNTING HARDWARE Select one of the newel mounting kits for each newel post (if desired).	84		
14	RAKE BALUSTERS FOR OPEN TREAD STAIR For 30"-34" handrail height, use the 34" baluster for the 1st baluster on the tread and use the 38" baluster for the 2nd and 3rd balusters on the tread. If using three balusters per tread, and a fitting, substitute a 42" baluster for the 3rd baluster under each landing fitting assembly. For 34"-38" handrail height, use the 38" baluster for the 1st baluster on the tread and use the 42" baluster for the 2nd baluster on the tread. If using three balusters per tread, use the 38" baluster for the 1st and 2nd balusters on the tread, and use the 42" baluster for the 3rd baluster on the tread. Note: when using three balusters per tread for 34"-38" rail height, the 42" baluster may not be long enough for use under a landing fitting assembly.	24-43		
15	RAKE BALUSTERS FOR KNEEWALL STAIR Select the shortest available baluster at a rate of two or three per tread placed on 4" to 6" centers. Subtract one baluster from the calculated total as the starting newel replaces the first baluster.	24-43		
16	LEVEL RUN BALUSTERS Use the 38" baluster for all 36" level runs/balconies. Use the 42" baluster for all 42" level runs/balconies. Place on 4"-6" centers. Subtract one baluster from the calculated total to account for the end of the run. Subtract one baluster for each newel post on the level run. Do not, however, subtract one for the newel post beneath the landing fitting assembly at the 2nd floor landing.	24-43		
17	HANDRAIL Select handrail at a rate of 13" per each tread and include enough for all level runs. Our handrails are available in 8", 10", 12", 14", & 16" lengths. See #18 for calculating wall rail.	24-43		
18	WALL RAIL If local building codes require wall rail, select wall rail at a rate of 13" per each tread that is closed by a wall. Also, see #20 below. Note: any of our non-plowed handrail profiles may be used as wall rail, however, be sure to check with local building codes for space requirements between the rail and the wall. Wall rail requires wall rail brackets (see #26). Select one bracket for each end of the rail and at 2'-3" intervals between.	83 24-43		
19	HANDRAIL FITTINGS (Landing Fitting Components) If using a Landing Fitting Assembly with the Intermediate and/or Second Floor Landing Newels, match each corner of the floor plan to a corresponding plan on pages 77-78. Specify each fitting component needed to construct the Landing Fitting Assembly(ies).	77-78		
20	HANDRAIL FITTINGS (Miscellaneous Components) If continuous handrail is needed to transition from the rake balusters, around a wall, and continue up the stair as wall rail, select the appropriate "S" Fitting or select two level quarterturns.	76		
21	SHOERAIL FOR KNEEWALL STAIR Select shoerail at a rate of 13" per each tread.	24-43		
22	SHOERAIL FOR LEVEL RUN Select shoerail to cover all balcony landing tread, (if desired).	24-43		
23	FILLET Select enough fillet to fill all plowed handrail and all shoerail.	24-43		
24	DOUBLE-END SCREW Select one Dowel-Fast™ double-end wood screw for each baluster installed on open treads or level landings. This is optional, but highly recommended. Double-end wood screws are not needed for balusters installed within shoerail.	85		
25	BRACKETS Select one bracket for each tread, (if desired).	81		
26	HARDWARE See pages 84-85 for any other installation hardware needed, such as, but not limited to, the following: Flush Mount Kit or Rail & Post Fastener to fasten the handrail to the newel posts; Wall Rail Brackets for any handrail attached to the wall; Wood Plugs, Wood Putty or Wood Glue.	84-85		

Post to Post Newel Applications	
Each Post to Post newel series includes several newels of different lengths. The application for the newels in each series is identified below.	
Shortest Utility Newel (48"—5" top face)	Use this newel as the starting newel on all stairs with a 30"-34" rake rail height. Can be used as a balcony newel that is surface mounted.
Longest Utility Newel (58"—5" top face)	Use this newel as a starting newel for stairs with a 34"-38" rake rail height and for balcony newels that will extend below the floor surface.
2nd Floor Landing Newel (11" top face)	Use this newel for the 2nd floor landing newel when not using a landing fitting assembly. Will achieve a 36" balcony railing height.
Intermediate Landing Newel (73" overall—14 1/2" top face)	Use this newel for a level intermediate landing with no landing fitting assembly.
Intermediate Landing Newel (62" overall—5" top face)	Use this newel for level landings with a landing fitting assembly.
Intermediate Landing Newel (73" overall—5" top face)	Use this newel for intermediate landings with 2-winder treads and a landing fitting assembly.
Intermediate Landing Newel (78" overall—5" top face)	Use this newel for intermediate landings with 3-winder treads and a landing fitting assembly.



GUIDELINES FOR ORDERING AN IRON & WOOD STAIR SYSTEM

The following guidelines are designed to provide an accurate and complete list of components necessary to complete your Iron & Wood Post to Post Stair System. This checklist and our Products Catalog will provide the flexibility to comply with most building codes as they relate to handrail height and baluster spacing requirements. The following guidelines will achieve 32" minimum/36" maximum rake rail heights. Always check local building codes before installation. All products in this catalog are for interior installations only.

Item	Guidelines	Page	Item Number	Qty.
SUPPORT SYSTEM				
1	SKIRTBOARD Select LJ-8912 skirtboard at 13" per tread, plus any additional length desired for extension beyond the first and last risers. Select the same quantity of LJ-8950 skirtboard cap (if desired).	80	LJ-8912 LJ-8950	
2	TREADS Select one tread for each step. For a stair open on one side order miter-returned (MR1) and add 1 1/2" to the skirtboard to skirtboard measurement, then refer to the next longer standard length available. For a stair open both sides order miter-returned both (MR2) and use the finished skirtboard to skirtboard measurement (measured outside to outside). For false treads see page 81.	80-81	10 1/2" x _____ 11 1/2" x _____	
3	RISERS Select one riser for each step. Select one more riser than treads per each flight because of landing tread (see #4). Note: Landing tread replaces the nosing over the last riser. For false risers see page 81.	80-81	7 1/2" x _____ 8" x _____	
4	LANDING TREAD Select sufficient lineal footage for the entire balcony and width of stairs at each landing. Note: LJ-8090-5 is suitable for all newels up to and including those that are 4" square. Larger newel posts might require the addition of a wood strip.	80	LJ-8090 or LJ-8090-5	
5	COVE MOULD Select sufficient lineal footage to go under all tread nosing (including miter-returns) and under all landing tread. Note: cove moulding is not needed under false treads.	80	LJ-8095	
BALUSTRADE				
6	UTILITY NEWEL For stairs with a 30"-34" rake rail height, select the 48" Utility newel for the starting newel at the bottom of the stairway. For 34"-38" rake rail height, select the 58" Utility newel for the starting newel. If handrail and balusters will be installed on both sides of the bottom of the stairway, two of these newels will be needed. See the Post to Post Newel Applications chart at the bottom of this page for further information on Utility Newel applications. If using Box Newels, select one for the starting newel at the bottom of the stairway. If handrail and balusters will be installed on both sides of the bottom of the stairway, two of these newels will be needed.	24-43 44-46		
7	PIN NEWEL Use in the middle of a long rake run of handrail for strength. This newel does not require a handrail fitting. Pin newels are available in two turning styles only.	36,37,40		
8	INTERMEDIATE LANDING NEWEL Select the intermediate landing newel with the 14 1/2" face when not using a landing fitting assembly. If a landing fitting assembly is used, select the 5" face intermediate landing newel. See the Post to Post Newel Applications chart at the bottom of this page for selecting the appropriate Intermediate Landing Newel(s) for your application. Refer to the photos on page 12. If using Box Newels, select an Intermediate Box Newel.	24-43 44-46		
9	SECOND FLOOR LANDING NEWEL Select the 2nd Floor Landing Newel when not using a landing fitting assembly (36" balcony height). 42" balcony height requires the use of a landing fitting assembly. Use the 48" Utility Newel for surface mount when using a landing fitting assembly. If the newel extends below the floor surface, use the 58" Utility Newel with a landing fitting assembly. See the Newel Applications chart below... If using Box Newels, select a Box Newel or Intermediate Box Newel for the Second Floor Landing Newel.	24-43 44-46		
10	LEVEL RUN NEWEL A level run, whether on the 2nd floor or at an intermediate landing, must include newel posts. It should match the post selected for the transition from rake to level or rake to rake (whichever is applicable). For a run of 10 feet or more, use a newel at the midpoint or every 5 to 6 feet. Place a newel at every corner.	24-46		
11	HALF NEWEL OR ROSETTES Select the half-newel of the same style as the other full newels selected on the balcony (i.e.: 11" face or 5" face or Box Newel) Select the round rosette for all level run rail connections into a wall. Select the oval or rectangular rosette for all angled rail connections into a wall (when the rail meets the wall on a rake).	24-46 81		
13	NEWEL MOUNTING HARDWARE Select one of the newel mounting kits for each newel post (if desired).	84		
14	RAKE IRON BALUSTERS FOR OPEN TREAD STAIR * For 30"-34" handrail height, use two 38" iron balusters per tread. If using three balusters per tread, use the 35" iron baluster for the 1st baluster on the tread, 38" for the 2nd baluster, and 42" for the 3rd baluster. For 34"-38" handrail height, use the 38" iron baluster for the 1st baluster on the tread and use the 42" iron baluster for the 2nd baluster on the tread. If using three balusters per tread, use the 38" iron baluster for the 1st baluster on the tread, and use the 42" iron baluster for the 2nd and 3rd balusters on the tread. Note: when using three balusters per tread for 34"-38" rail height, the 42" baluster may not be long enough for use under a landing fitting assembly. *See important note below. While not necessary, an alternating pattern is frequently desired.	66-72		
15	RAKE IRON BALUSTERS FOR KNEEWALL STAIR * Select the shortest available baluster at a rate of three per tread placed on 4" to 6" centers. Subtract one baluster from the calculated total as the starting newel replaces the first baluster. *See important note below. While not necessary, an alternating pattern is frequently desired.	66-72		
16	LEVEL RUN IRON BALUSTERS Use the 35" iron baluster for all 36" level runs/balconies. Use the 42" iron baluster for all 42" level runs/balconies. Place on 4"-6" centers. Subtract one baluster from the calculated total to account for the end of the run. Subtract one baluster for each newel post on the level run. Do not, however, subtract one for the newel post beneath the landing fitting assembly at the 2nd floor landing. While not necessary, an alternating pattern is frequently desired.	66-72		
17	HANDRAIL Select non-plowed handrail at a rate of 13" per each tread and include enough for all level runs. Our handrails are available in 8', 10', 12', 14', & 16' lengths. See #18 for calculating wall rail.	24-43		
18	WALL RAIL If local building codes require wall rail, select wall rail at a rate of 13" per each tread that is closed by a wall. Also, see #20 below. Note: any of our non-plowed handrail profiles may be used as wall rail, however, be sure to check with local building codes for space requirements between the rail and the wall. Wall rail requires wall rail brackets (see #26). Select one bracket for each end of the rail and at 2'-3" intervals between.	83 24-43		
19	HANDRAIL FITTINGS (Landing Fitting Components) If using a Landing Fitting Assembly with the Intermediate and/or Second Floor Landing Newels, match each corner of the floor plan to a corresponding plan on pages 77-78. Specify each fitting component needed to construct the Landing Fitting Assembly(ies).	77-78		
20	HANDRAIL FITTINGS (Miscellaneous Components) If continuous handrail is needed to transition from the rake balusters, around a wall, and continue up the stair as wall rail, select the appropriate "S" Fitting or select two level quarterturns.	76		
21	BOTTOM BALUSTER COLLARS Select one bottom baluster collar for each baluster. See descriptions for applications.	73		
22	TOP BALUSTER COLLARS Select one top baluster collar for each baluster (if desired). See descriptions for applications.	73		
23	IRON BALUSTER ACCESSORIES If using LI-5111 balusters, select the appropriate number of adjustable knuckles (if desired). If medallion balusters are being used, select the corresponding number of medallions (if desired).	72-73		
24	BRACKETS Select one bracket for each tread, (if desired).	81		
25	IRON BALUSTER EPOXY Select construction epoxy for installing the iron balusters.	73		
26	HARDWARE See pages 84-85 for any other installation hardware needed, such as, but not limited to, the following: Flush Mount Kit or Rail & Post Fastener to fasten the handrail to the newel posts; Wall Rail Brackets for any handrail attached to the wall; Wood Plugs, Wood Putty or Wood Glue.	84-85		

* When using two balusters per tread, please check building codes for baluster spacing compliance. Baluster style LJ-5150 cannot be used three per tread. Shorter balusters may be used in some rise/run combinations, but these take-offs cover the majority of the rise/run combinations.

Post to Post Newel Applications	
Each Post to Post newel series includes several newels of different lengths. The application for the newels in each series is identified below.	
Shortest Utility Newel (48"—5" top face)	Use this newel as the starting newel on all stairs with a 30"-34" rake rail height. Can be used as a balcony newel that is surface mounted.
Longest Utility Newel (58"—5" top face)	Use this newel as a starting newel for stairs with a 34"-38" rake rail height and for balcony newels that will extend below the floor surface.
2nd Floor Landing Newel (11" top face)	Use this newel for the 2nd floor landing newel when not using a landing fitting assembly. Will achieve a 36" balcony railing height.
Intermediate Landing Newel (73" overall—14 1/2" top face)	Use this newel for a level intermediate landing with no landing fitting assembly.
Intermediate Landing Newel (62" overall—5" top face)	Use this newel for level landings with a landing fitting assembly.
Intermediate Landing Newel (73" overall—5" top face)	Use this newel for intermediate landings with 2-winder treads and a landing fitting assembly.
Intermediate Landing Newel (78" overall—5" top face)	Use this newel for intermediate landings with 3-winder treads and a landing fitting assembly.