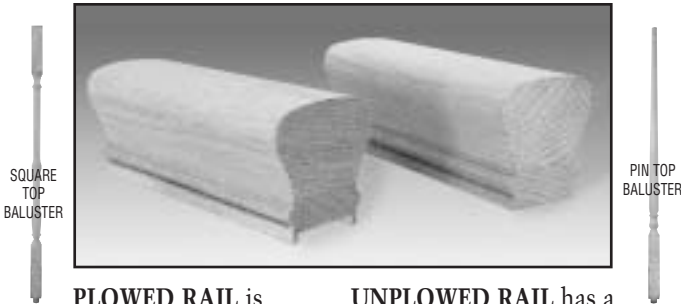


# Ordering Specifications for® Rails

Check local building codes for required height and baluster spacing.  
For more information and installation instructions refer to Coffman's C-165 Stair Building Guide, page 46.

## RAIL AND LINEAL BALUSTRADE COMPONENTS

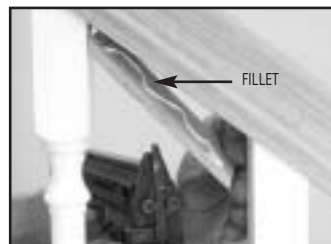
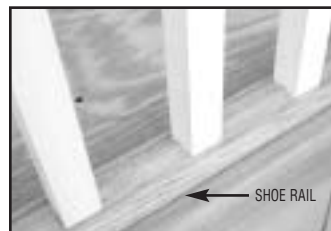
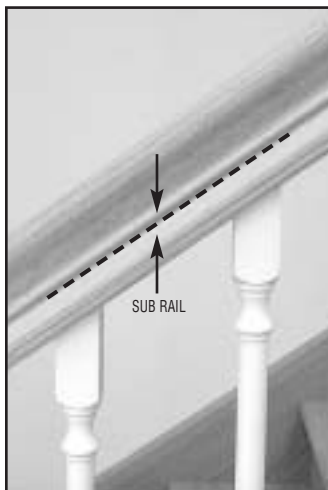
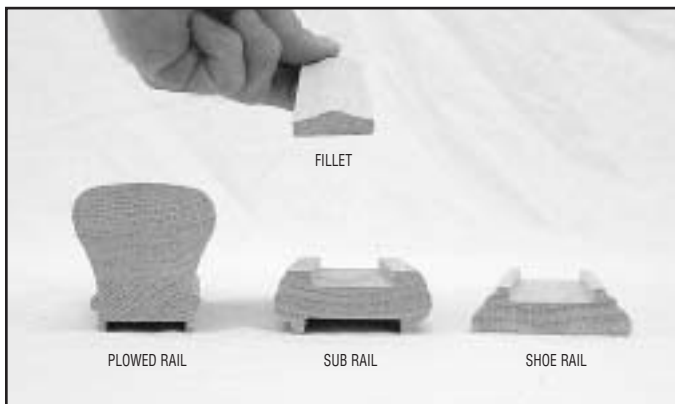
Rail and lineal balustrade components, like other lineal products, are offered in even lengths from 4' to 16'. For rake portions of the stair, measure along the slope of the stair or use the lineal formula:  
**Number of Treads x 13"** (rounded up to the nearest even length).



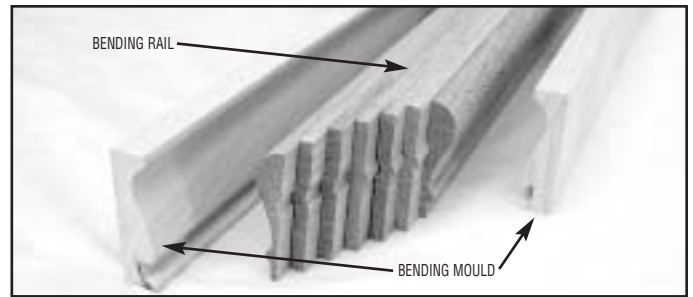
**PLOWED RAIL** is moulded with a recessed bottom for insertion of square top balusters.

**UNPLOWED RAIL** has a flat bottom that will be drilled for the insertion of pin top balusters.

**LINEAL RAIL COMPONENTS** consist of sub rail, shoe rail, and fillet. Shoe rail is a plowed moulding designed to accept the bottom of the baluster. Sub rail is used under unplowed handrail with square top balusters in Post-to-Post systems to provide a more substantial look to the balustrade. Fillet is a finished moulding that will be installed between the balusters in plowed rail, shoe rail and sub rail.



## BENDING RAIL BALUSTRADE COMPONENTS





The key components of curved rail construction are bending rails and bending moulds which are available in all Coffman rail profiles. Bending rail is most easily understood when imagining a standard rail profile cut into thin, vertical strips. Bending mould is a form, moulded to the outside profile of the handrail, that is used to cradle the bending rail as it is being shaped to the stair.

Each ply comprising the bending rail is designed and manufactured with a tongue and groove bead to create an alignment of the plies. When assembled, Coffman bending rail results in a match of the standard rail profile.



The minimum radius achievable with each rail profile will depend on several factors. These factors include such variables as the thickness of each ply, the overall thickness of the handrail, the height of the handrail, the angle of the stair, and whether the rail is bent on the rake or on the level portion of the stair. The minimum recommended radius for use on both rake and level applications are listed in the chart for each Coffman bending rail profile.

BENDING RAIL MINIMUM RADIUS	 	
	RAKE RAIL	BALCONY RAIL
TRADITIONAL C-6016	36"	42"
BRISTOL C-6116	42"	48"
CLASSIC C-6216-W	42"	48"
RICHMOND C-6416	42"	48"
LIBERTY C-6516	36"	42"
MARION C-6716	42"	48"
ART DECO C-6816	42"	48"