



CUT LIST for building a rolling library ladder

Designed to reach an 8½-foot-tall shelf (on a 10-foot-high bookcase) in the climbing position.

1x4 red oak boards for the handrails: two @ 107 inches

1x5 red oak boards for the treads: one @ 103¼ inches, cut to seven 14¾-inch lengths

¾-inch red oak spindle: one @ 15¼ inches

Note: Although the formula from Custom Service Hardware for sizing and angling the handrails is ideal for a track installed 7 feet 7 inches high, the company applies it to ladders of any size. This saves a step of calculating angles but means that shorter ladders will have a shallower pitch and taller ladders a steeper one. The design of the wheels allows them to maintain solid contact with the floor for ladders made with this formula for bookcases as tall as 18 feet.