

Luan backer cut layout

A checked layout for up to 19 backers from one nominal 4 × 8 ft sheet.

Backer starting size: $17\frac{1}{2} \times 12\frac{1}{2}$ in. Check one against the actual assembled frame before cutting the batch. This sheet is for adult preparation; retain the student measuring and calculation steps in the Blueprint.

48 in nominal width

96 in nominal length	1	8	15
	2	9	16
	3	10	17
	4	11	18
	5	12	19
	6	13	
	7	14	
	17½ in	17½ in	12½ in

1. Check the sheet

Use a square, sound sheet. This layout needs at least $47\frac{3}{4}$ in of usable width with the stated kerf. Edge trimming or defects can reduce yield.

2. Rip three strips

Two strips at $17\frac{1}{2}$ in wide and one at $12\frac{1}{2}$ in wide. Allow up to $\frac{1}{8}$ in for each rip cut.

3. Crosscut the backers

Cut seven $12\frac{1}{2}$ in lengths from each wide strip, then five $17\frac{1}{2}$ in lengths from the narrow strip.

$7 + 7 + 5 = 19$ backers

Kerf allowance

The longest strip pattern uses $88\frac{3}{8}$ in including a cut after every piece at $\frac{1}{8}$ in kerf. Confirm the actual blade width and measuring method before cutting.

Fit check

Backers sit inside the outside edges of the frame; they are not the frame's clear inside opening. Test the fit and fastener locations on one assembled frame.

The count above is a geometric layout, not a guarantee of usable yield. Follow the saw manufacturer's setup and guarding instructions, use appropriate support, and have a competent adult make preparation cuts.