

PANEL OPTIMIZATION REPORT - MAXRECTS ALGORITHM

Customer: Benjamin Franklin

Job: Franklin Master Kitchen (#103)

Date: 01/08/2025

Door Style: #103

OPTIMIZATION SUMMARY

2

TOTAL SHEETS

20

PANELS CUT

73.8%

AVG EFFICIENCY

MATERIAL BREAKDOWN

Material	Sheets Required	Total Area Used	Efficiency	Waste (sq ft)
Stain Grade Maple	1	24.8 sq ft	77.6%	7.2
Paint Grade	1	22.4 sq ft	69.9%	9.6

Algorithm: Maxrects with Best Area Fit

This advanced algorithm maintains maximal free rectangles for optimal placement. Features enabled: Panel rotation (when grain allows), gap filling, waste tracking.

Settings:

- Kerf (blade width): 0.125"
- Sheet size: 48.0" x 96.0"
- Rotation enabled: False
- Minimum waste size to track: 6" x 6"

SHEET #1 - Stain Grade Maple

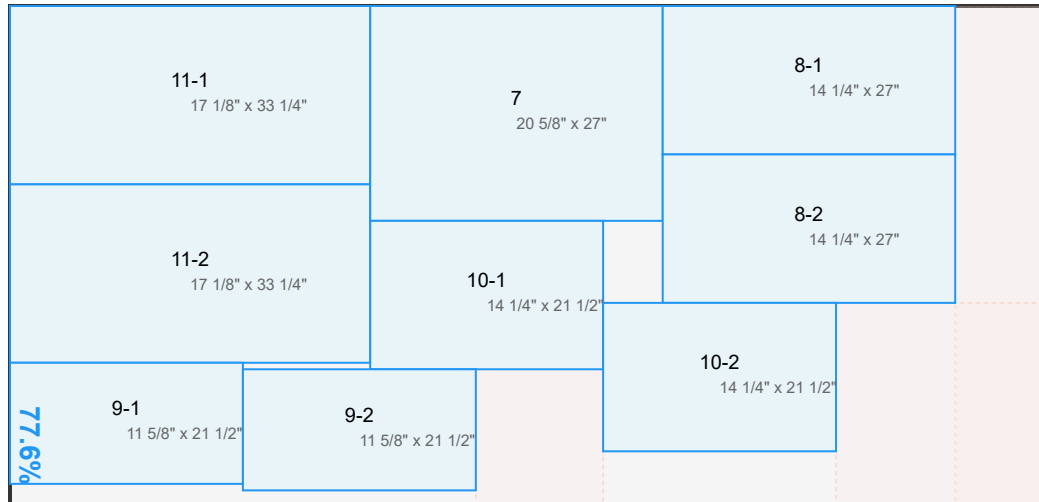
Sheet Size: 48.0" x 96.0"

Panels on Sheet: 9

Material Usage: 77.6% (HIGH)

Waste: 7.15 sq ft

CUTTING DIAGRAM



CUTTING INSTRUCTIONS

-> Cabinet #11: 17 1/8" x 33 1/4"

1. Cross-cut at 17 1/8" from left edge

-> Cabinet #11: 17 1/8" x 33 1/4"

2. Cross-cut at 34 1/4" from left edge

-> Cabinet #9: 11 5/8" x 21 1/2"

3. Rip at 21 1/2" from bottom edge

4. Cross-cut at 34 7/8" from left edge

-> Cabinet #9: 11 5/8" x 21 1/2"

5. Rip at 33 3/16" from bottom edge

-> Cabinet #7: 20 5/8" x 27"

6. Cross-cut at 20 5/8" from left edge

-> Cabinet #10: 14 1/4" x 21 1/2"

7. Rip at 54 13/16" from bottom edge

8. Cross-cut at 28 1/2" from left edge

-> Cabinet #10: 14 1/4" x 21 1/2"

9. Rip at 60 3/16" from bottom edge

-> Cabinet #8: 14 1/4" x 27"

10. 10. Cross-cut at 14 1/4" from left edge

-> Cabinet #8: 14 1/4" x 27"

Sheet efficiency: 77.6%

Usable waste pieces: 3

- (Save for drawer bottoms or small parts)

SHEET #2 - Paint Grade

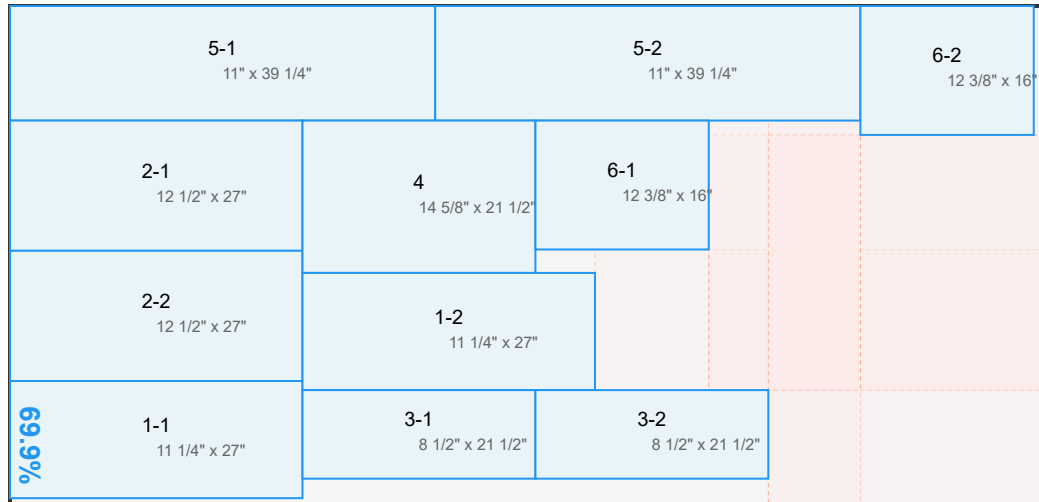
Sheet Size: 48.0" x 96.0"

Panels on Sheet: 11

Material Usage: 69.9% (MEDIUM)

Waste: 9.63 sq ft

CUTTING DIAGRAM



CUTTING INSTRUCTIONS

1. Cross-cut at 11" from left edge
-> Cabinet #5: 11" x 39 1/4"
2. Cross-cut at 23 1/2" from left edge
-> Cabinet #2: 12 1/2" x 27"
3. Cross-cut at 36" from left edge
-> Cabinet #2: 12 1/2" x 27"
4. Rip at 27" from bottom edge
5. Cross-cut at 11" from left edge
-> Cabinet #4: 14 5/8" x 21 1/2"
6. Cross-cut at 25 5/8" from left edge
-> Cabinet #1: 11 1/4" x 27"
7. Cross-cut at 36 7/8" from left edge
-> Cabinet #3: 8 1/2" x 21 1/2"
8. Rip at 39 3/16" from bottom edge
-> Cabinet #5: 11" x 39 1/4"
9. Rip at 48 1/2" from bottom edge

10. 10. Cross-cut at 11" from left edge

-> Cabinet #6: 12 3/8" x 16"

11. 11. Cross-cut at 36 7/8" from left edge

-> Cabinet #3: 8 1/2" x 21 1/2"

12. 12. Rip at 78 1/2" from bottom edge

-> Cabinet #6: 12 3/8" x 16"

Sheet efficiency: 69.9%

Usable waste pieces: 5

- (Save for drawer bottoms or small parts)

anyDoor Panel Optimizer (Maxrects Algorithm) - Generated: 2025-09-08 09:04:49 AM