

Nesting & Quote Report

Sample bracket assembly | October 4, 2026

Sample Fabrication Co.

Material

Material	Stock used	Stock lb	Parts lb	Offcut lb	Scrap lb	Yield	\$ / lb	Material \$
A36 Steel 0.06" Offcut returned to stock: 1 x 47 x 48 in	1 x 48 x 96 sheet	78.1	22.3	38.3	17.6	55.9%	0.550	\$42.98
A36 Steel 0.188" Offcut returned to stock: 1 x 38 x 48 in	1 x 48 x 96 sheet	245.0	126.4	97.0	21.6	85.4%	0.550	\$134.77
Angle 2 x 2 x 0.25 A36 Offcut returned to stock: 1 x 100 in, 1 x 30 in	2 x 240" bars	144.0	105.0	38.7	0.3	99.8%	0.600	\$86.40
Tube 2 x 2 x 0.125 A500 Offcut returned to stock: 1 x 174 in, 1 x 20 in, 1 x 12 in	7 x 240" bars	446.5	386.5	54.8	5.3	98.7%	0.600	\$267.93
Total		913.7	640.2	228.8	44.8	93.5%		\$532.07

Yield = parts against the material actually used up. Offcuts that go back to stock are not counted as used or as scrap.

Quote

Material (stock purchased)	\$532.07
Offcut credit (229 lb back to stock)	-\$104.40
Scrap credit	-\$4.48
Cutting (167 ft of cut path)	\$100.20
Piercing (113 holes / starts)	\$11.30
Sawing (76 cuts)	\$57.00
Subtotal	\$591.70
Markup (25%)	\$147.93
TOTAL	\$739.63

Job facts

Pieces nested	105
Sheets used	2
Bars used	9
Yield (material used)	93.5%
Whole-sheet utilization	70.1%
Offcuts back to stock	228.8 lb
Scrap	44.8 lb
Total weight of parts	640.2 lb

Notes

- Too big 60x60 is too big for the 48 x 96 sheet and is not in the quote.

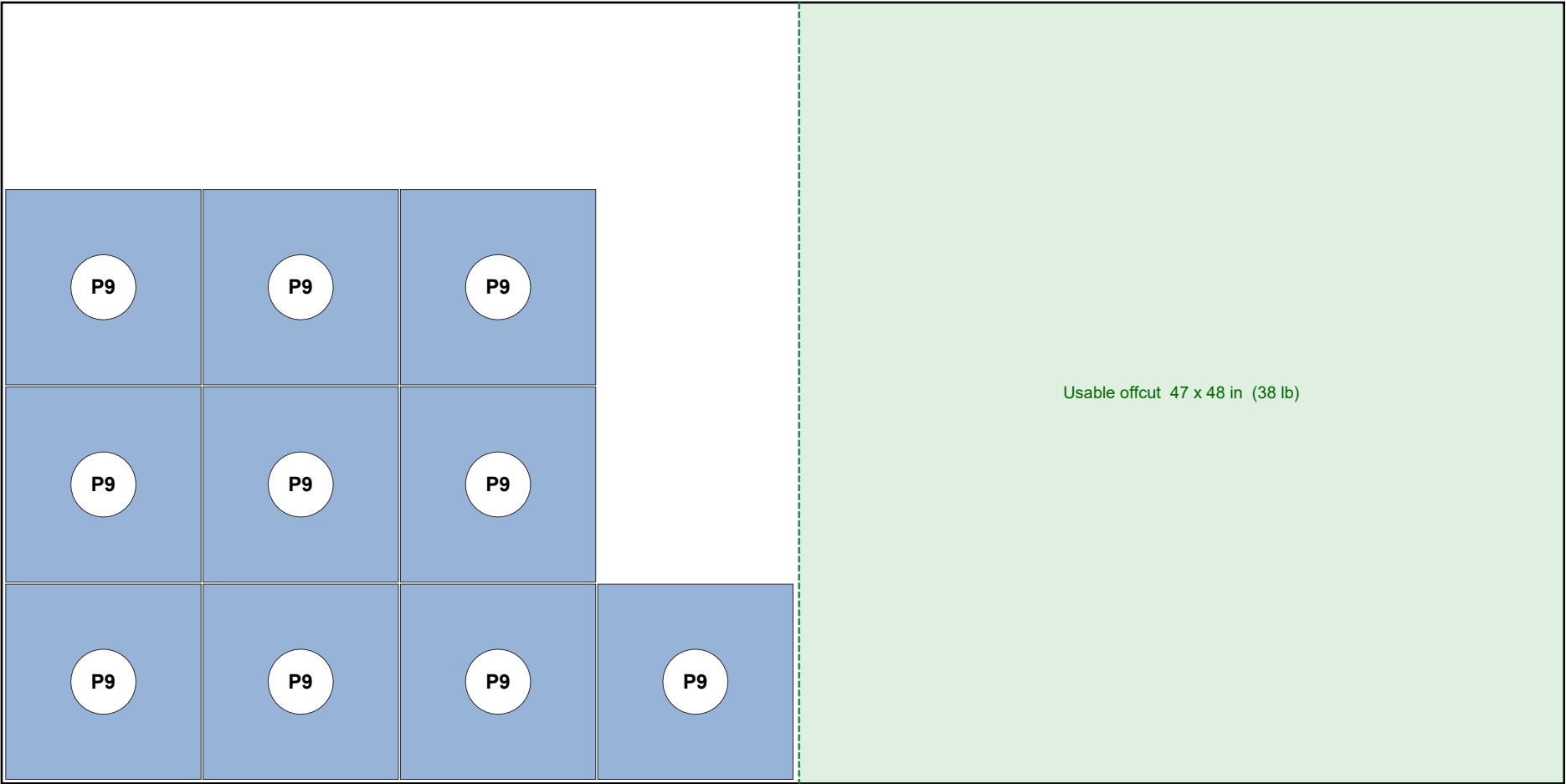
Part pricing

Cost includes material share, cutting, bending, sawing and setup; price adds markup.

ID	Part	Material / size	Qty	Wt each	Cost each	Price each	Price total
B1	Tube leg	Tube 2 x 2 x 0.125 48" long	10	12.76 lb	\$9.46	\$11.82	\$118.24
P1	Plate 10x6	A36 Steel 0.188"	8	3.15 lb	\$4.65	\$5.82	\$46.54
B2	Tube rail	Tube 2 x 2 x 0.125 36.5" long	12	9.70 lb	\$7.55	\$9.44	\$113.29
P2	L bracket	A36 Steel 0.188"	6	1.17 lb	\$2.23	\$2.79	\$16.74
B3	Tube beam	Tube 2 x 2 x 0.125 120" long	3	31.90 lb	\$21.40	\$26.75	\$80.24
P3	Flange 7in	A36 Steel 0.188"	4	1.67 lb	\$2.96	\$3.70	\$14.79
B4	Tube brace	Tube 2 x 2 x 0.125 22" long	8	5.85 lb	\$5.15	\$6.44	\$51.48
P4	Square 2x2	A36 Steel 0.188"	20	0.21 lb	\$0.65	\$0.81	\$16.28
B5	Angle	Angle 2 x 2 x 0.25 70" long	5	21.00 lb	\$15.06	\$18.82	\$94.10
P5	Strap 24x1.5	A36 Steel 0.188"	6	1.91 lb	\$4.01	\$5.01	\$30.09
P6	Gusset	A36 Steel 0.188"	12	0.66 lb	\$1.43	\$1.78	\$21.40
P7	Base 40x30	A36 Steel 0.188"	1	63.81 lb	\$52.49	\$65.62	\$65.62
P9	Cover 12x12 16ga	A36 Steel 0.06"	10	2.23 lb	\$5.67	\$7.08	\$70.83
Total			105				\$739.63

Sheet 1 of 2 - A36 Steel 0.06" - 48 x 96 in

10 parts on this sheet | yield of the part of the sheet used 55.9% | 47 in offcut kept

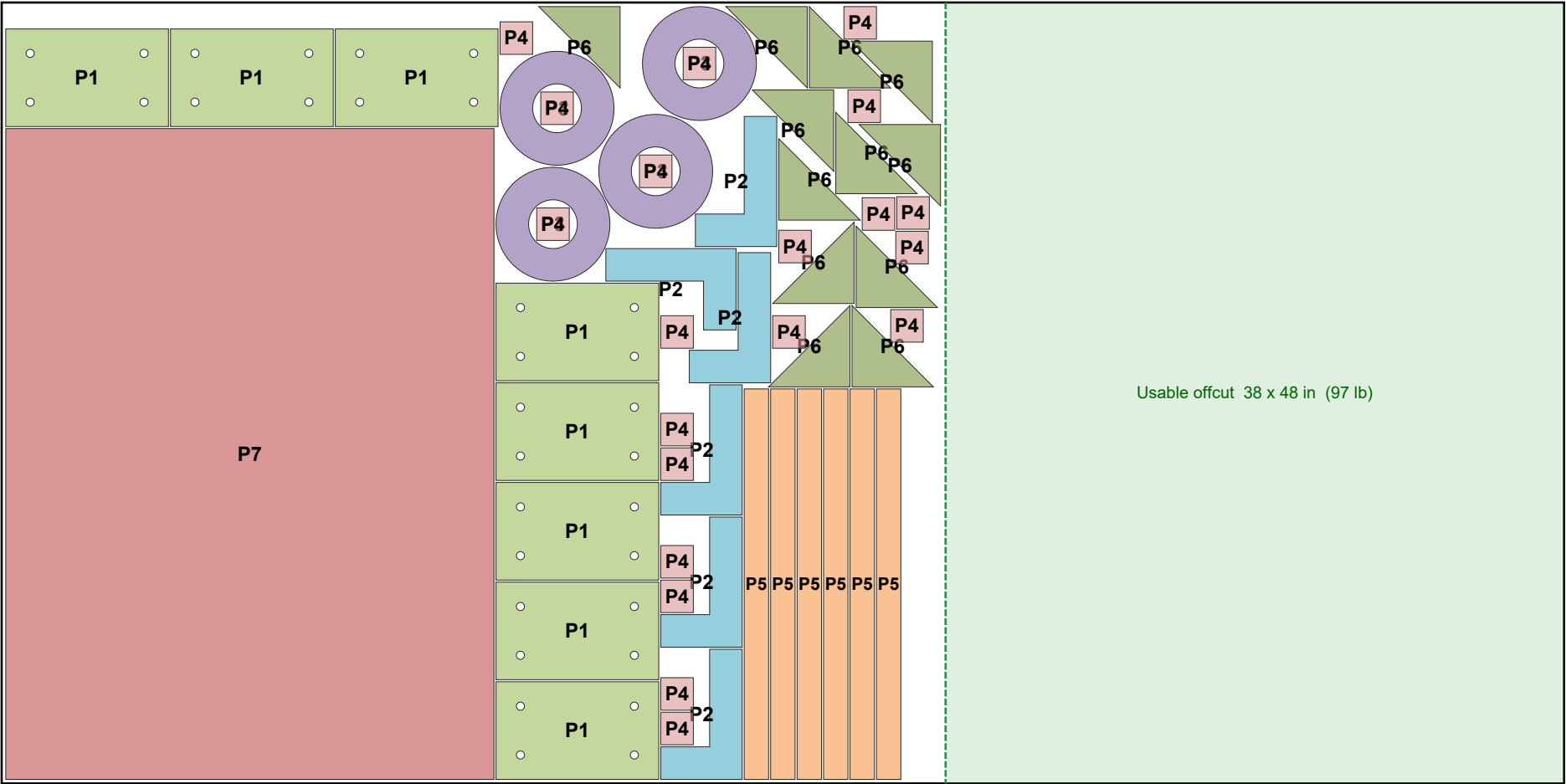


Parts on this sheet

■ P9 Cover 12x12 16ga x 10

Sheet 2 of 2 - A36 Steel 0.188" - 48 x 96 in

57 parts on this sheet | yield of the part of the sheet used 85.4% | 38 in offcut kept



Parts on this sheet

P1 Plate 10x6	x 8
P2 L bracket	x 6
P3 Flange 7in	x 4
P4 Square 2x2	x 20
P5 Strap 24x1.5	x 6
P6 Gusset	x 12
P7 Base 40x30	x 1

Angle 2 x 2 x 0.25 - A36

2 bars | yield 72.9% | scrap 0.3 lb

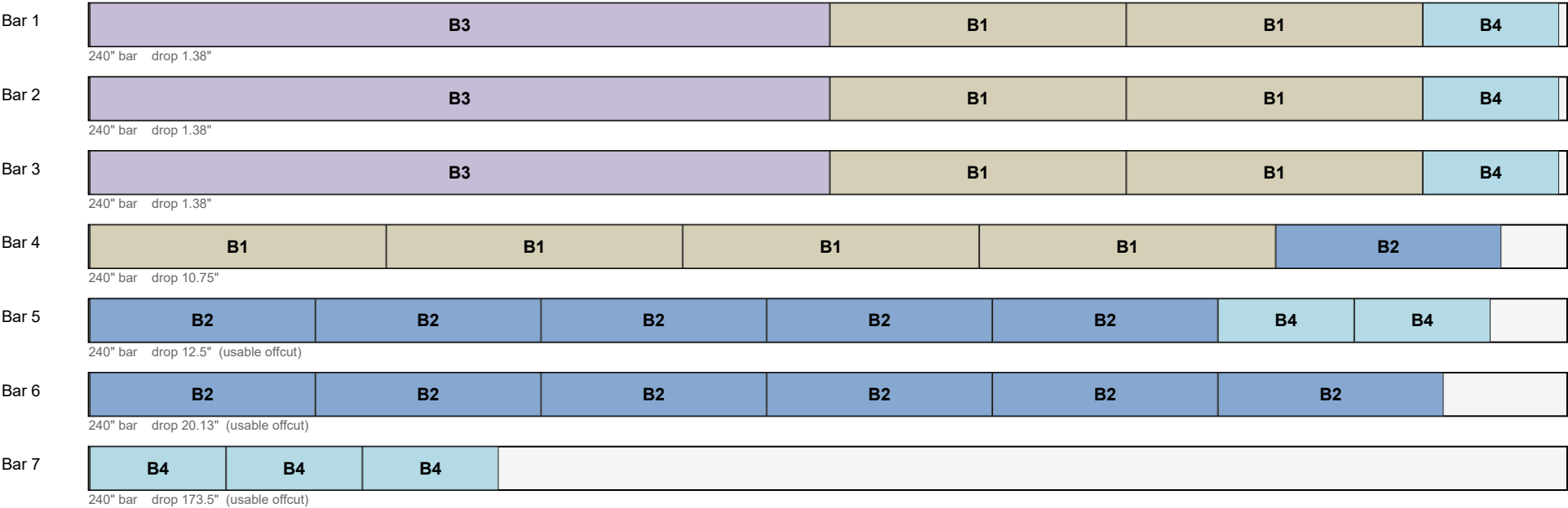
Bar 1	B5 B5 B5 240" bar drop 29.5" (usable offcut)
Bar 2	B5 B5 240" bar drop 99.63" (usable offcut)

Cut list

B5 Angle 70" x 5

Tube 2 x 2 x 0.125 - A500

7 bars | yield 86.5% | scrap 5.3 lb



Cut list

B1	Tube leg	48"	x 10
B2	Tube rail	36.5"	x 12
B3	Tube beam	120"	x 3
B4	Tube brace	22"	x 8