



## Nirvana Technologies Pvt. Ltd.

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# PLUS 2D Nesting Software Optimization Report

### General Details:

<b>Project Name</b>	<b>SteelSample</b>
File Name	N:/Plus2D/Samples/samplemtl.plj
Job No	NT09
Customer	Nirvana Tech
CustomerId	NT
Created By	
Approved By	
Date	Wednesday, July 21, 2010
PLUS 2D Version No.	8.68

**Stock Details:**

Id	Length	Width	Cost	Qty	Material	Thk	Remarks
a	4500	2400	10108.8	100	steel	3	
b	2400	1800	4043.52	100	steel	3	

**Part Details:**

Name	Fin. Length	Fin. Width	Rotn	Qty	Type	Material	Thk	Remarks
p5	240	40	1	0	DXF	steel	3	2
p9	1800	130	1	0	DXF	steel	3	22
p11	2400	130	1	0	DXF	steel	3	22
p6	130	210	1	0	DXF	steel	3	22
p2	2140	296	1	34	DXF	steel	3	34
p1	290	316	1	22	DXF	steel	3	22
p4	240	359	1	34	DXF	steel	3	34
p3	3487	366	1	34	DXF	steel	3	34
p7	2400	442	1	22	DXF	steel	3	22
p8	1800	442	1	22	DXF	steel	3	22
1	800	300	1	34	Rect	steel	3	34
2	250	400	1	34	Rect	steel	3	34
3	550	300	1	34	Rect	steel	3	34
4	360	490	1	60	Rect	steel	3	60
7	700	589	1	60	Rect	steel	3	60

**Summary of Optimization Results:**

Summary of Optimization Results:	
Grinding Margin	0
Saw Width	0
Number of Layouts	10
Number of Stock Used	18
Total Utilization	96.77 %
Total Parts Required	390
Total Parts Nested	390
Reusable Offcuts	13
Total Stock Area	168.48
Total Part Area	162.18
Offcut Area	0.86
Scrap Area	5.44
Total Stock Weight	3942.43
Total Part Weight	3795
Total Offcut Weight	20.24
Total Scrap Weight	127.19
ScrapWt/PartWt	3.35 %

### Summary of Layouts:

No	Name	Qty	Util%	Cost	Parts	Offcut Qty - Size
1	a	1	98.73	10108.80	24	1
2	a	1	97.58	10108.80	26	0
3	a	4	97.02	40435.20	112	0
4	a	6	96.66	60652.80	126	1
5	a	1	95.82	10108.80	18	0
6	a	1	95.99	10108.80	24	1
7	b	1	100.00	4043.52	18	0
8	b	1	96.78	4043.52	4	0
9	b	1	95.23	4043.52	8	1
10	b	1	91.75	4043.52	30	4

**Parts Summary Table:**

No	Name	Size and Mate (L x W, [Mate,Thk])	Nested (Required)	Area	Weight	Remarks
1	p5	240 x 40, [steel,3]	0 (0)	0	0	2
2	p9	1800 x 130, [steel,3]	0 (0)	0	0	22
3	p11	2400 x 130, [steel,3]	0 (0)	0	0	22
4	p6	130 x 210, [steel,3]	0 (0)	0	0	22
5	p2	2140 x 296, [steel,3]	34 (34)	21.39	500.61	34
6	p1	290 x 316, [steel,3]	22 (22)	1.97	46.13	22
7	p4	240 x 359, [steel,3]	34 (34)	2.86	66.93	34
8	p3	3487 x 366, [steel,3]	34 (34)	43.02	1006.67	34
9	p7	2400 x 442, [steel,3]	22 (22)	23	538.1	22
10	p8	1800 x 442, [steel,3]	22 (22)	17.45	408.25	22
11	1	800 x 300, [steel,3]	34 (34)	8.16	190.94	34
12	2	250 x 400, [steel,3]	34 (34)	3.4	79.56	34
13	3	550 x 300, [steel,3]	34 (34)	5.61	131.27	34
14	4	360 x 490, [steel,3]	60 (60)	10.58	247.67	60
15	7	700 x 589, [steel,3]	60 (60)	24.74	578.87	60
		Total	390 (390)	162.18	3795	

**Stocks used details:**

No	Name	Length	Width	Avail Qty	Utl Qty	Area	Material	Thk
1	a	4500	2400	100	14	151.2	steel	3
2	b	2400	1800	100	4	17.28	steel	3
	Total				18	168.48		

**Offcut Details :**

Id	Length	Width	Cost	Qty	Area	Material	Thk
Off_1_3	296	260	72.03	1	0.08	steel	3
Off_4_3	170	296	47.1	6	0.3	steel	3
Off_6_3	296	216	59.84	1	0.06	steel	3
Off_9_3	260	296	72.03	1	0.08	steel	3
Off_10_3	290	220	59.72	1	0.06	steel	3
Off_10_4	290	220	59.72	1	0.06	steel	3
Off_10_5	441	240	99.07	1	0.11	steel	3
Off_10_6	310	360	104.46	1	0.11	steel	3
Total				13	0.86		

**Parts Cut List:**

Name	Length	Width	Qty	Remarks Layout-Qty	Material	Thk
p5	240	40	0		steel	3
p9	1800	130	0		steel	3
p11	2400	130	0		steel	3
p6	130	210	0		steel	3
p2	2140	296	34	9-2/6-4/4-12/2-15/1-1	steel	3
p1	290	316	22	10-10/6-12	steel	3
p4	240	359	34	10-9/9-1/3-24	steel	3
p3	3487	366	34	6-4/5-4/4-18/3-8	steel	3
p7	2400	442	22	9-1/8-4/5-2/3-8/1-7	steel	3
p8	1800	442	22	5-2/4-12/3-8	steel	3
1	800	300	34	10-4/7-18/4-12	steel	3
2	250	400	34	10-3/5-2/4-18/2-11	steel	3
3	550	300	34	4-18/1-16	steel	3
4	360	490	60	10-4/5-8/3-48	steel	3
7	700	589	60	9-4/6-4/4-36/3-16	steel	3

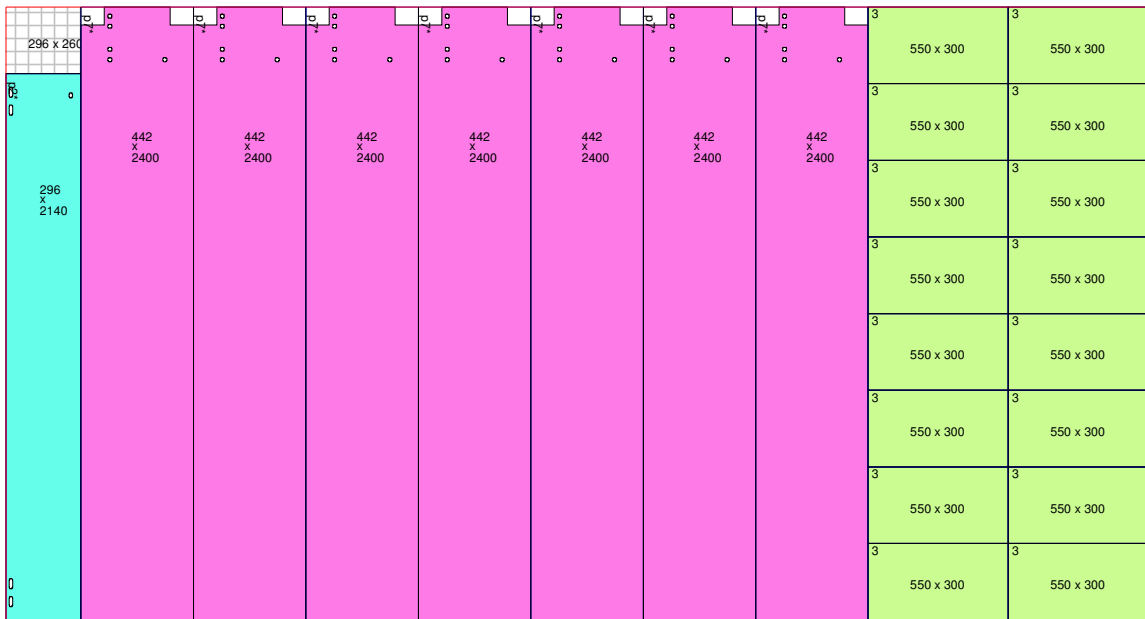
**Detailed table about Stocks & Parts:**

No	Stk Length	Stk Width	Stk Area	Prt Length	Prt Width	Qty	Part Area	Name
1	4500	2400	10.8					
				2140	296	1	0.63	p2
				2400	442	7	7.32	p7
				550	300	16	2.64	3
			98.73 %				10.59	
2	4500	2400	10.8					
				2140	296	15	9.44	p2
				250	400	11	1.1	2
			97.58 %				10.54	
3	4500	2400	10.8					
				240	359	6	0.5	p4
				3487	366	2	2.53	p3
				2400	442	2	2.09	p7
				1800	442	2	1.59	p8
				360	490	12	2.12	4
				700	589	4	1.65	7
			97.02 %				10.48	
4	4500	2400	10.8					
				2140	296	2	1.26	p2
				3487	366	3	3.8	p3
				1800	442	2	1.59	p8
				800	300	2	0.48	1
				250	400	3	0.3	2
				550	300	3	0.5	3
				700	589	6	2.47	7
			96.66 %				10.39	
5	4500	2400	10.8					
				3487	366	4	5.06	p3
				2400	442	2	2.09	p7
				1800	442	2	1.59	p8
				250	400	2	0.2	2
				360	490	8	1.41	4
			95.82 %				10.35	
6	4500	2400	10.8					
				2140	296	4	2.52	p2
				290	316	12	1.08	p1
				3487	366	4	5.06	p3
				700	589	4	1.65	7
			95.99 %				10.3	
7	2400	1800	4.32					
				800	300	18	4.32	1
			100.00 %				4.32	
8	2400	1800	4.32					
				2400	442	4	4.18	p7

No	Stk Length	Stk Width	Stk Area	Prt Length	Prt Width	Qty	Part Area	Name
			96.78 %				4.18	
9	2400	1800	4.32					
				2140	296	2	1.26	p2
				240	359	1	0.08	p4
				2400	442	1	1.05	p7
				700	589	4	1.65	7
			95.23 %				4.04	
10	2400	1800	4.32					
				290	316	10	0.9	p1
				240	359	9	0.76	p4
				800	300	4	0.96	1
				250	400	3	0.3	2
				360	490	4	0.71	4
			91.75 %				3.62	



## Details of each Layout:



**Layout 1 of 10(Stock:a Dim:4500 x 2400 Qty:1 Material:steel Thk:3)**

## Bill Of Materials:

Name	Length	Width	Qty	Area	Total Qty.	Prod./Re qd.	Remarks
p2	2140	296	1	0.63	1	0/34	34
p7	2400	442	7	7.32	7	0/22	22
3	550	300	16	2.64	16	0/34	34
Total			24	10.59	24		
Offcuts							
Off_1_3	296	260	1	0.08	1		
Total			1	0.08	1		

## Cutting Instructions:

CutIndex	StartPt X	StartPt Y	EndPt X	EndPt Y
1	296	0	296	2400
2	0	2140	296	2140
3	738	0	738	2400
4	1180	0	1180	2400
5	1622	0	1622	2400
6	2064	0	2064	2400
7	2506	0	2506	2400
8	2948	0	2948	2400

<b>CutIndex</b>	<b>StartPt X</b>	<b>StartPt Y</b>	<b>EndPt X</b>	<b>EndPt Y</b>
9	3390	0	3390	2400
10	3940	0	3940	2400
11	3390	300	3940	300
12	3390	600	3940	600
13	3390	900	3940	900
14	3390	1200	3940	1200
15	3390	1500	3940	1500
16	3390	1800	3940	1800
17	3390	2100	3940	2100
18	4490	0	4490	2400
19	3940	300	4490	300
20	3940	600	4490	600
21	3940	900	4490	900
22	3940	1200	4490	1200
23	3940	1500	4490	1500
24	3940	1800	4490	1800
25	3940	2100	4490	2100

2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"
400 x 250	400 x 250	400 x 250	400 x 250	400 x 250	400 x 250	400 x 250	400 x 250	400 x 250	400 x 250	400 x 250	400 x 250	400 x 250	400 x 250	400 x 250
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
296	296	296	296	296	296	296	296	296	296	296	296	296	296	296
x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
2140	2140	2140	2140	2140	2140	2140	2140	2140	2140	2140	2140	2140	2140	2140
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

**Layout 2 of 10(Stock:a Dim:4500 x 2400 Qty:1 Material:steel Thk:3)**

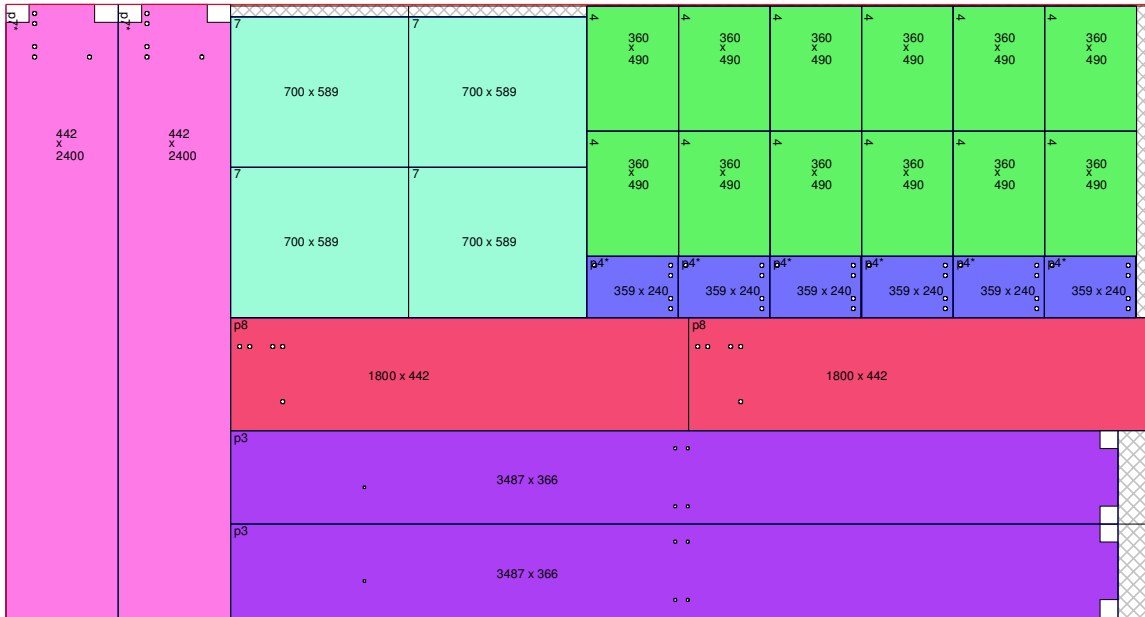
**Bill Of Materials:**

Name	Length	Width	Qty	Area	Total Qty.	Prod/Re qd.	Remarks
p2	2140	296	15	9.44	15	1/34	34
2	250	400	11	1.1	11	0/34	34
Total			26	10.54	26		

**Cutting Instructions:**

CutIndex	StartPt X	StartPt Y	EndPt X	EndPt Y
1	0	2140	4500	2140
2	296	0	296	2140
3	592	0	592	2140
4	888	0	888	2140
5	1184	0	1184	2140
6	1480	0	1480	2140
7	1776	0	1776	2140
8	2072	0	2072	2140
9	2368	0	2368	2140
10	2664	0	2664	2140
11	2960	0	2960	2140
12	3256	0	3256	2140
13	3552	0	3552	2140
14	3848	0	3848	2140
15	4144	0	4144	2140

<b>CutIndex</b>	<b>StartPt X</b>	<b>StartPt Y</b>	<b>EndPt X</b>	<b>EndPt Y</b>
16	4440	0	4440	2140
17	0	2390	4500	2390
18	400	2140	400	2390
19	800	2140	800	2390
20	1200	2140	1200	2390
21	1600	2140	1600	2390
22	2000	2140	2000	2390
23	2400	2140	2400	2390
24	2800	2140	2800	2390
25	3200	2140	3200	2390
26	3600	2140	3600	2390
27	4000	2140	4000	2390
28	4400	2140	4400	2390



**Layout 3 of 10(Stock:a Dim:4500 x 2400 Qty:4 Material:steel Thk:3)**

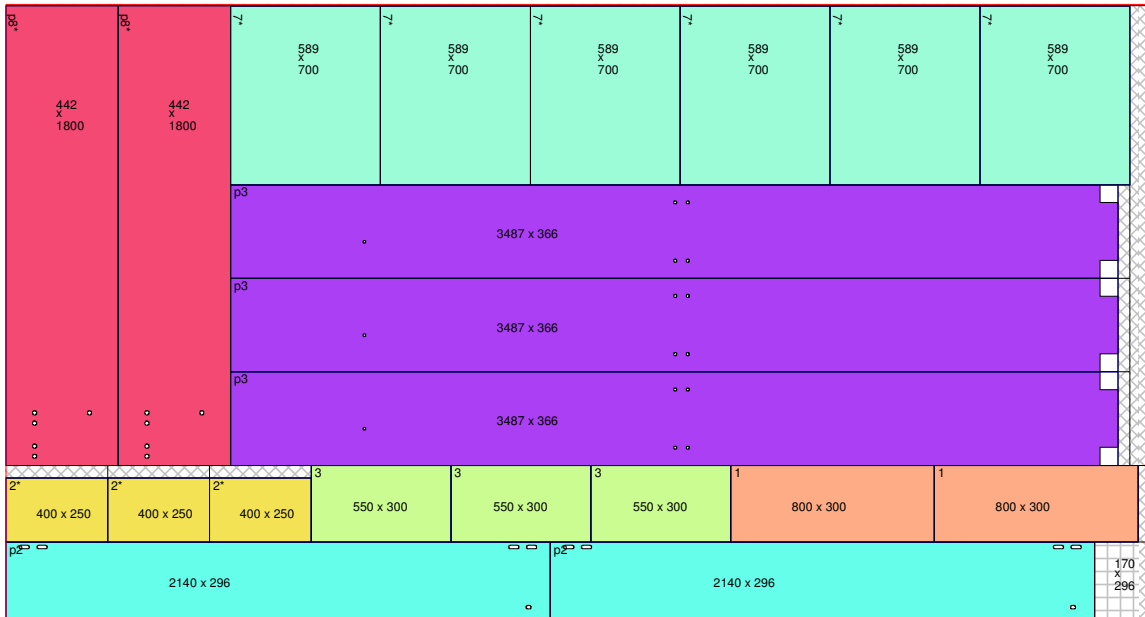
**Bill Of Materials:**

Name	Length	Width	Qty	Area	Total Qty.	Prod./Re qd.	Remarks
p4	240	359	6	0.5	24	0/34	34
p3	3487	366	2	2.53	8	0/34	34
p7	2400	442	2	2.09	8	7/22	22
p8	1800	442	2	1.59	8	0/22	22
4	360	490	12	2.12	48	0/60	60
7	700	589	4	1.65	16	0/60	60
Total			28	10.48	112		

**Cutting Instructions:**

CutIndex	StartPt X	StartPt Y	EndPt X	EndPt Y
1	442	0	442	2400
2	884	0	884	2400
3	4484	0	4484	2400
4	884	366	4484	366
5	4371	0	4371	366
6	884	732	4484	732
7	4371	366	4371	732
8	884	1174	4484	1174
9	2684	732	2684	1174
10	884	2394	4484	2394
11	1584	1174	1584	2394

CutIndex	StartPt X	StartPt Y	EndPt X	EndPt Y
12	884	1763	1584	1763
13	884	2352	1584	2352
14	2284	1174	2284	2394
15	1584	1763	2284	1763
16	1584	2352	2284	2352
17	3364	1174	3364	2394
18	2284	1414	3364	1414
19	2643	1174	2643	1414
20	3002	1174	3002	1414
21	3361	1174	3361	1414
22	2284	1904	3364	1904
23	2644	1414	2644	1904
24	3004	1414	3004	1904
25	2644	1904	2644	2394
26	3004	1904	3004	2394
27	4444	1174	4444	2394
28	3364	1414	4444	1414
29	3723	1174	3723	1414
30	4082	1174	4082	1414
31	4441	1174	4441	1414
32	3364	1904	4444	1904
33	3724	1414	3724	1904
34	4084	1414	4084	1904
35	3724	1904	3724	2394
36	4084	1904	4084	2394



**Layout 4 of 10(Stock:a Dim:4500 x 2400 Qty:6 Material:steel Thk:3)**

**Bill Of Materials:**

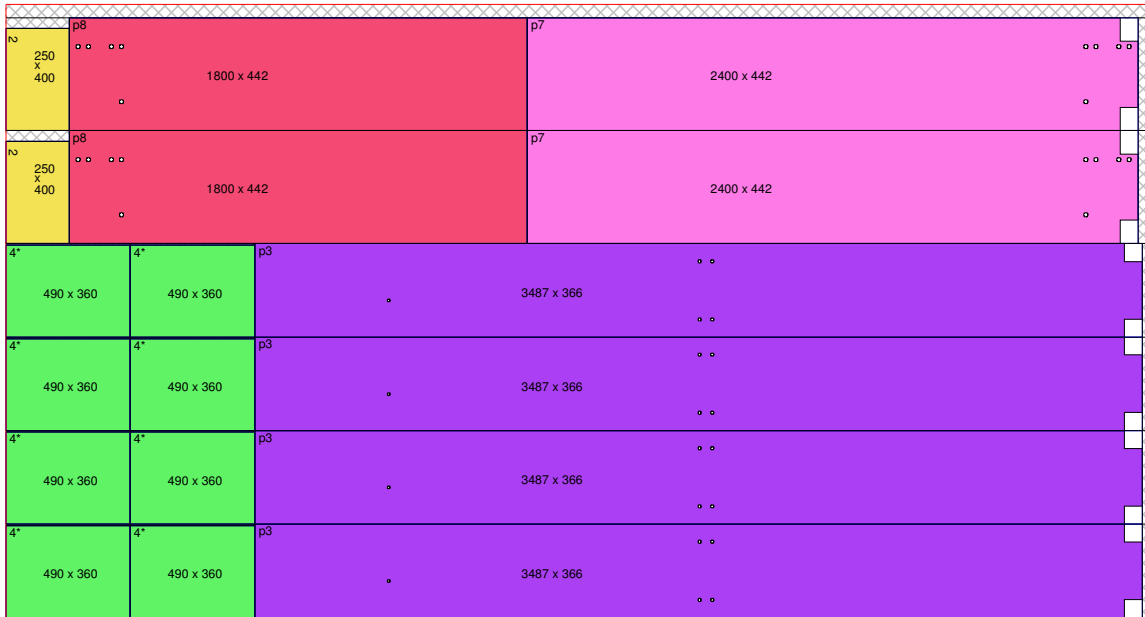
Name	Length	Width	Qty	Area	Total Qty.	Prod/Re qd.	Remarks
p2	2140	296	2	1.26	12	16/34	34
p3	3487	366	3	3.8	18	8/34	34
p8	1800	442	2	1.59	12	8/22	22
1	800	300	2	0.48	12	0/34	34
2	250	400	3	0.3	18	11/34	34
3	550	300	3	0.5	18*	16/34	34
7	700	589	6	2.47	36	16/60	60
Total			21	10.39	126		
Offcuts							
Off_4_3	170	296	1	0.3	6		
Total			1	0.3	6		

**Cutting Instructions:**

CutIndex	StartPt X	StartPt Y	EndPt X	EndPt Y
1	0	296	4500	296
2	2140	0	2140	296
3	4280	0	4280	296
4	0	596	4500	596
5	400	296	400	596
6	0	546	400	546
7	800	296	800	596

<b>CutIndex</b>	<b>StartPt X</b>	<b>StartPt Y</b>	<b>EndPt X</b>	<b>EndPt Y</b>
8	400	546	800	546
9	1200	296	1200	596
10	800	546	1200	546
11	1750	296	1750	596
12	2300	296	2300	596
13	2850	296	2850	596
14	3650	296	3650	596
15	4450	296	4450	596
16	0	2396	4500	2396
17	442	596	442	2396
18	884	596	884	2396
19	4418	596	4418	2396
20	884	962	4418	962
21	4371	596	4371	962
22	884	1328	4418	1328
23	4371	962	4371	1328
24	884	1694	4418	1694
25	4371	1328	4371	1694
26	884	2394	4418	2394
27	1473	1694	1473	2394
28	2062	1694	2062	2394
29	2651	1694	2651	2394
30	3240	1694	3240	2394
31	3829	1694	3829	2394





**Layout 5 of 10(Stock:a Dim:4500 x 2400 Qty:1 Material:steel Thk:3)**

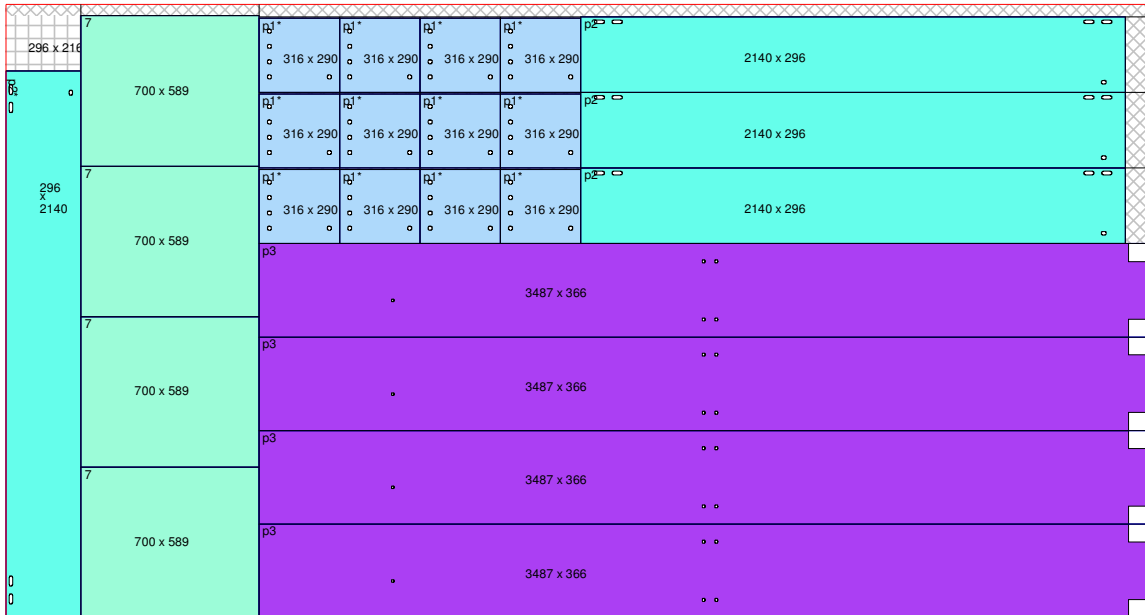
**Bill Of Materials:**

Name	Length	Width	Qty	Area	Total Qty.	Prod./Re qd.	Remarks
p3	3487	366	4	5.06	4	26/34	34
p7	2400	442	2	2.09	2	15/22	22
p8	1800	442	2	1.59	2*	20/22	22
2	250	400	2	0.2	2	29/34	34
4	360	490	8	1.41	8	48/60	60
Total			18	10.35	18		

**Cutting Instructions:**

CutIndex	StartPt X	StartPt Y	EndPt X	EndPt Y
1	0	366	4500	366
2	490	0	490	366
3	0	360	490	360
4	980	0	980	366
5	490	360	980	360
6	4467	0	4467	366
7	0	732	4500	732
8	490	366	490	732
9	0	726	490	726
10	980	366	980	732
11	490	726	980	726
12	4467	366	4467	732

<b>CutIndex</b>	<b>StartPt X</b>	<b>StartPt Y</b>	<b>EndPt X</b>	<b>EndPt Y</b>
13	0	1098	4500	1098
14	490	732	490	1098
15	0	1092	490	1092
16	980	732	980	1098
17	490	1092	980	1092
18	4467	732	4467	1098
19	0	1464	4500	1464
20	490	1098	490	1464
21	0	1458	490	1458
22	980	1098	980	1464
23	490	1458	980	1458
24	4467	1098	4467	1464
25	0	1906	4500	1906
26	250	1464	250	1906
27	0	1864	250	1864
28	2050	1464	2050	1906
29	4450	1464	4450	1906
30	0	2348	4500	2348
31	250	1906	250	2348
32	0	2306	250	2306
33	2050	1906	2050	2348
34	4450	1906	4450	2348



**Layout 6 of 10(Stock:a Dim:4500 x 2400 Qty:1 Material:steel Thk:3)**

**Bill Of Materials:**

Name	Length	Width	Qty	Area	Total Qty.	Prod./Re qd.	Remarks
p2	2140	296	4	2.52	4	28/34	34
p1	290	316	12	1.08	12	0/22	22
p3	3487	366	4	5.06	4*	30/34	34
7	700	589	4	1.65	4	52/60	60
Total			24	10.3	24		
Offcuts							
Off_6_3	296	216	1	0.06	1		
Total			1	0.06	1		

**Cutting Instructions:**

CutIndex	StartPt X	StartPt Y	EndPt X	EndPt Y
1	296	0	296	2400
2	0	2140	296	2140
3	996	0	996	2400
4	296	589	996	589
5	296	1178	996	1178
6	296	1767	996	1767
7	296	2356	996	2356
8	4483	0	4483	2400
9	996	366	4483	366
10	996	732	4483	732

CutIndex	StartPt X	StartPt Y	EndPt X	EndPt Y
11	996	1098	4483	1098
12	996	1464	4483	1464
13	996	1760	4483	1760
14	1312	1464	1312	1760
15	996	1754	1312	1754
16	1628	1464	1628	1760
17	1312	1754	1628	1754
18	1944	1464	1944	1760
19	1628	1754	1944	1754
20	2260	1464	2260	1760
21	1944	1754	2260	1754
22	4400	1464	4400	1760
23	996	2056	4483	2056
24	1312	1760	1312	2056
25	996	2050	1312	2050
26	1628	1760	1628	2056
27	1312	2050	1628	2050
28	1944	1760	1944	2056
29	1628	2050	1944	2050
30	2260	1760	2260	2056
31	1944	2050	2260	2050
32	4400	1760	4400	2056
33	996	2352	4483	2352
34	1312	2056	1312	2352
35	996	2346	1312	2346
36	1628	2056	1628	2352
37	1312	2346	1628	2346
38	1944	2056	1944	2352
39	1628	2346	1944	2346
40	2260	2056	2260	2352
41	1944	2346	2260	2346
42	4400	2056	4400	2352

1	800 x 300	1	800 x 300	1	800 x 300
1	800 x 300	1	800 x 300	1	800 x 300
1	800 x 300	1	800 x 300	1	800 x 300
1	800 x 300	1	800 x 300	1	800 x 300
1	800 x 300	1	800 x 300	1	800 x 300
1	800 x 300	1	800 x 300	1	800 x 300

**Layout 7 of 10(Stock:b Dim:2400 x 1800 Qty:1 Material:steel Thk:3)**

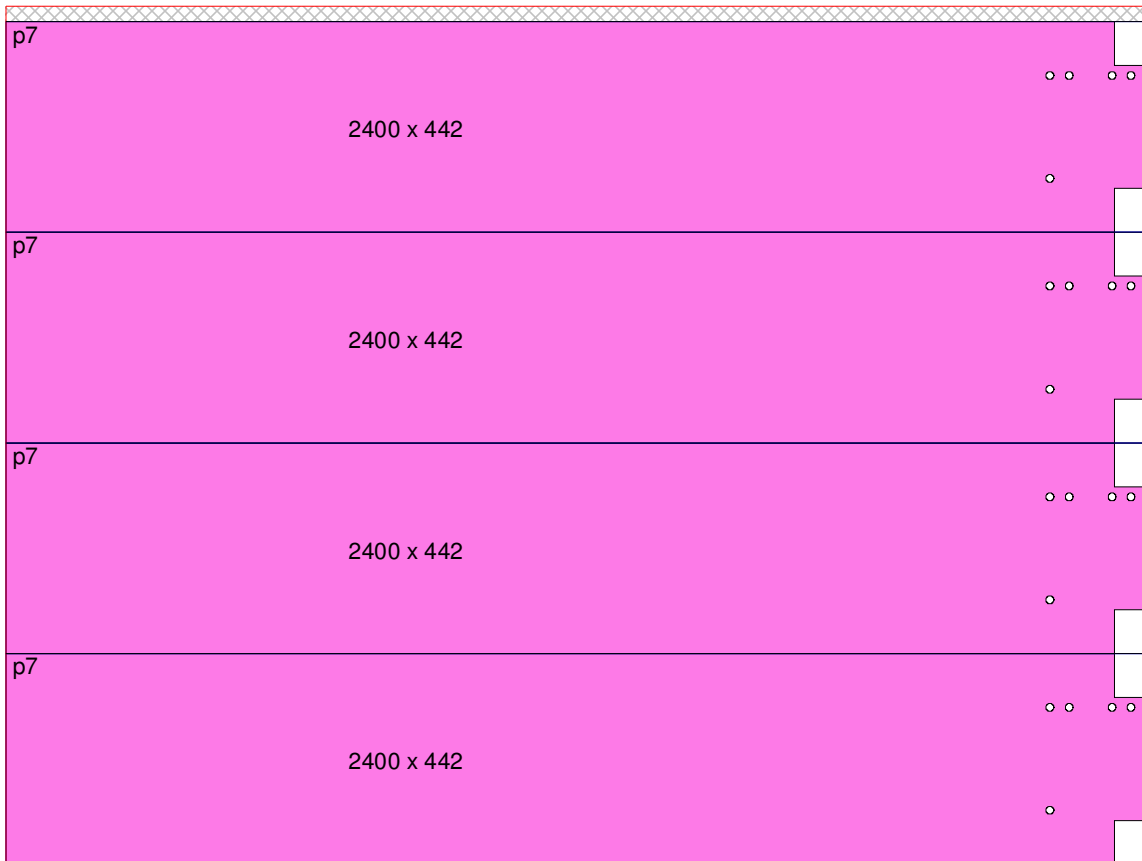
**Bill Of Materials:**

Name	Length	Width	Qty	Area	Total Qty.	Prod./Re qd.	Remarks
1	800	300	18	4.32	18	12/34	34
Total			18	4.32	18		

**Cutting Instructions:**

CutIndex	StartPt X	StartPt Y	EndPt X	EndPt Y
1	800	0	800	1800
2	0	300	800	300
3	0	600	800	600
4	0	900	800	900
5	0	1200	800	1200
6	0	1500	800	1500
7	1600	0	1600	1800
8	800	300	1600	300

<b>CutIndex</b>	<b>StartPt X</b>	<b>StartPt Y</b>	<b>EndPt X</b>	<b>EndPt Y</b>
9	800	600	1600	600
10	800	900	1600	900
11	800	1200	1600	1200
12	800	1500	1600	1500
13	1600	300	2400	300
14	1600	600	2400	600
15	1600	900	2400	900
16	1600	1200	2400	1200
17	1600	1500	2400	1500



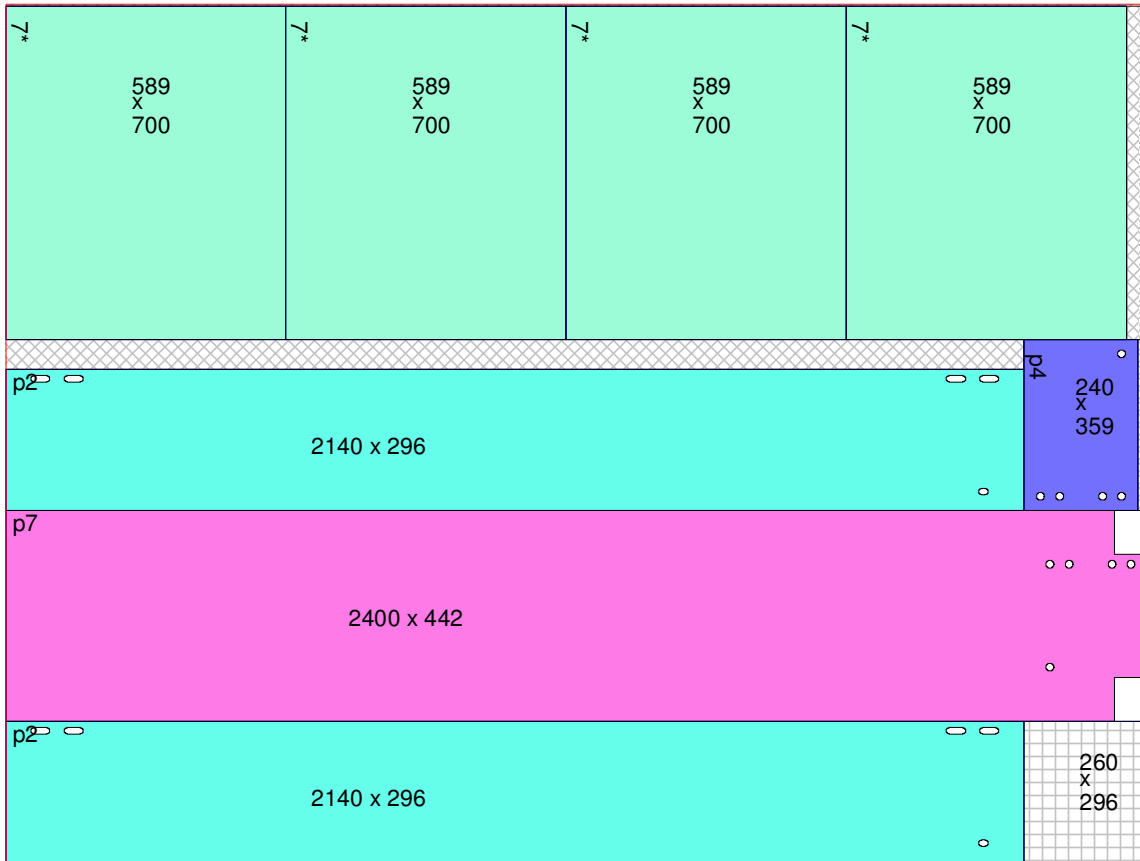
**Layout 8 of 10(Stock:b Dim:2400 x 1800 Qty:1 Material:steel Thk:3)**

**Bill Of Materials:**

Name	Length	Width	Qty	Area	Total Qty.	Prod./Re qd.	Remarks
p7	2400	442	4	4.18	4	17/22	22
Total			4	4.18	4		

**Cutting Instructions:**

CutIndex	StartPt X	StartPt Y	EndPt X	EndPt Y
1	0	442	2400	442
2	0	884	2400	884
3	0	1326	2400	1326
4	0	1768	2400	1768



**Layout 9 of 10(Stock:b Dim:2400 x 1800 Qty:1 Material:steel Thk:3)**

**Bill Of Materials:**

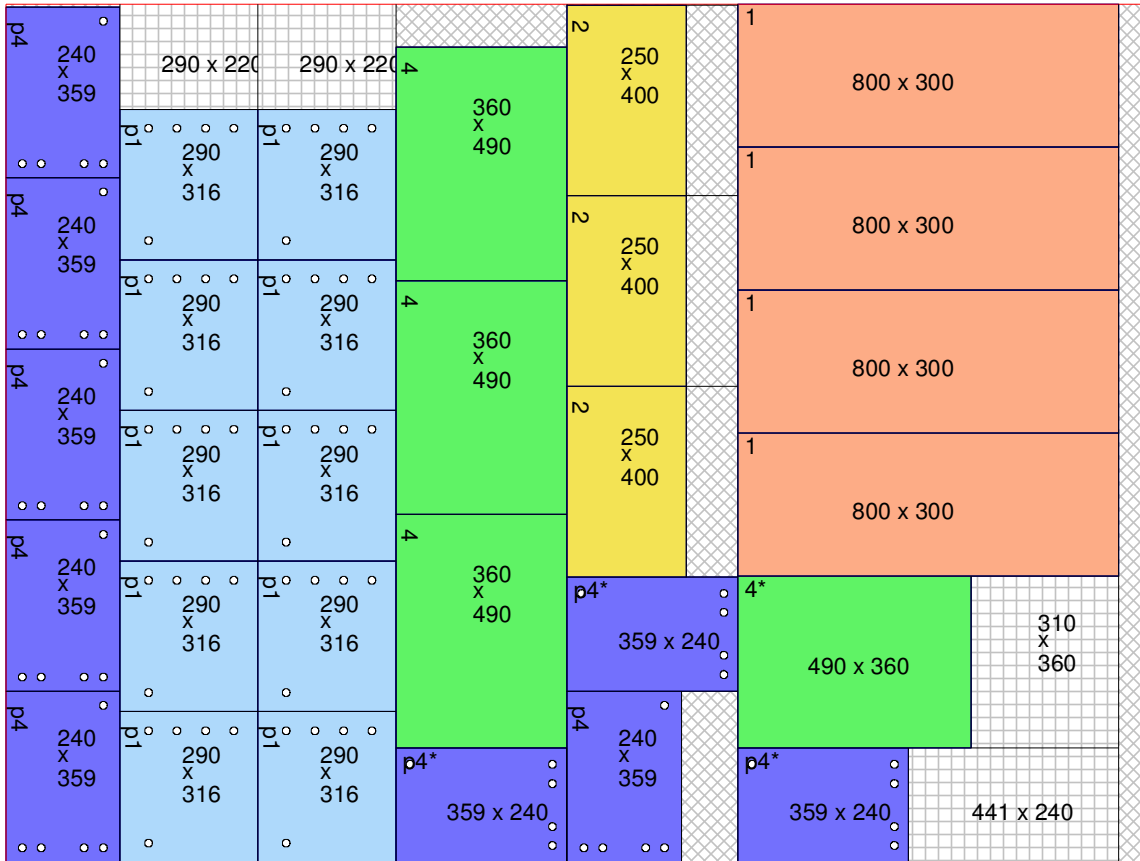
Name	Length	Width	Qty	Area	Total Qty.	Prod./Re qd.	Remarks
p2	2140	296	2	1.26	2*	32/34	34
p4	240	359	1	0.08	1	24/34	34
p7	2400	442	1	1.05	1*	21/22	22
7	700	589	4	1.65	4*	56/60	60
Total			8	4.04	8		
Offcuts							
Off_9_3	260	296	1	0.08	1		
Total			1	0.08	1		

**Cutting Instructions:**

CutIndex	StartPt X	StartPt Y	EndPt X	EndPt Y
1	0	296	2400	296
2	2140	0	2140	296



<b>CutIndex</b>	<b>StartPt X</b>	<b>StartPt Y</b>	<b>EndPt X</b>	<b>EndPt Y</b>
3	0	738	2400	738
4	0	1097	2400	1097
5	2140	738	2140	1097
6	0	1034	2140	1034
7	2380	738	2380	1097
8	0	1797	2400	1797
9	589	1097	589	1797
10	1178	1097	1178	1797
11	1767	1097	1767	1797
12	2356	1097	2356	1797



**Layout 10 of 10(Stock:b Dim:2400 x 1800 Qty:1 Material:steel Thk:3)**

**Bill Of Materials:**

Name	Length	Width	Qty	Area	Total Qty.	Prod./Re qd.	Remarks
p1	290	316	10	0.9	10*	12/22	22
p4	240	359	9	0.76	9*	25/34	34
1	800	300	4	0.96	4*	30/34	34
2	250	400	3	0.3	3*	31/34	34
4	360	490	4	0.71	4*	56/60	60
Total			30	3.62	30		
Offcuts							
Off_10_3	290	220	1	0.06	1		
Off_10_4	290	220	1	0.06	1		
Off_10_5	441	240	1	0.11	1		
Off_10_6	310	360	1	0.11	1		
Total			4	0.35	4		

### Cutting Instructions:

CutIndex	StartPt X	StartPt Y	EndPt X	EndPt Y
1	240	0	240	1800
2	0	359	240	359
3	0	718	240	718
4	0	1077	240	1077
5	0	1436	240	1436
6	0	1795	240	1795
7	530	0	530	1800
8	240	316	530	316
9	240	632	530	632
10	240	948	530	948
11	240	1264	530	1264
12	240	1580	530	1580
13	820	0	820	1800
14	530	316	820	316
15	530	632	820	632
16	530	948	820	948
17	530	1264	820	1264
18	530	1580	820	1580
19	1180	0	1180	1800
20	820	240	1180	240
21	1179	0	1179	240
22	820	730	1180	730
23	820	1220	1180	1220
24	820	1710	1180	1710
25	1539	0	1539	1800
26	1180	359	1539	359
27	1420	0	1420	359
28	1180	599	1539	599
29	1180	999	1539	999
30	1430	599	1430	999
31	1180	1399	1539	1399
32	1430	999	1430	1399
33	1180	1799	1539	1799
34	1430	1399	1430	1799
35	2339	0	2339	1800
36	1539	240	2339	240
37	1898	0	1898	240
38	1539	600	2339	600
39	2029	240	2029	600
40	1539	900	2339	900
41	1539	1200	2339	1200
42	1539	1500	2339	1500