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PLUS 2D Nesting Software Optimization Report

General Details:

Project Name	
File Name	//Server/dev-nirvanatec.com/downloads/plus2d/samples/lib_shapes.plj
Job No	
Customer	
CustomerId	
Created By	
Approved By	
Date	Wednesday, July 21, 2010
Material	glass
Thk	6
PLUS 2D Version No.	8.68

Stock Details:

Id	Length	Width	Cost	Qty	Remarks
1	2440	1240	4719.94	15	
2	2440	1530	5823.79	15	
3	3350	2250	11758.5	15	

Part Details:

Name	Fin. Length	Fin. Width	Rotn	Qty	Type	Remarks
p1	480	215	0	19	Rect	
p2	680	215	0	10	Rect	
2	515	715	1	12	DXF	
3	530	665	1	10	DXF	
4	430	665	1	10	DXF	

Summary of Optimization Results:

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Grinding Margin	0
Saw Width	0
Number of Layouts	2
Number of Stock Used	2
Total Utilization	97.67 %
Total Parts Required	61
Total Parts Nested	61
Reusable Offcuts	2
Total Stock Area	15.07
Total Part Area	14.23
Offcut Area	0.5
Scrap Area	0.35
Total Stock Weight	235.17
Total Part Weight	221.92
Total Offcut Weight	7.78
Total Scrap Weight	5.47
ScrapWt/PartWt	2.46 %

Summary of Layouts:

No	Name	Qty	Util%	Cost	Parts	Offcut Qty - Size
1	3	1	97.95	11758.50	35	0
2	3	1	97.40	11758.50	26	2

Parts Summary Table:

No	Name	Size (L x W)	Nested (Required)	Area	Weight	Remarks
1	p1	480 x 215	19 (19)	1.96	91.77	
2	p2	680 x 215	10 (10)	1.46	68.42	
3	2	515 x 715	12 (12)	4.42	206.8	
4	3	530 x 665	10 (10)	3.52	164.95	
5	4	430 x 665	10 (10)	2.86	133.82	
		Total	61 (61)	14.23	665.75	

Stocks used details:

No	Name	Length	Width	Avail Qty	Utl Qty	Area
3	3	3350	2250	15	2	15.07
	Total				2	15.07

Offcut Details :

Id	Length	Width	Cost	Qty	Area
Off_2_3	1005	215	337.08	1	0.22
Off_2_4	205	1380	441.32	1	0.28
Total				2	0.5

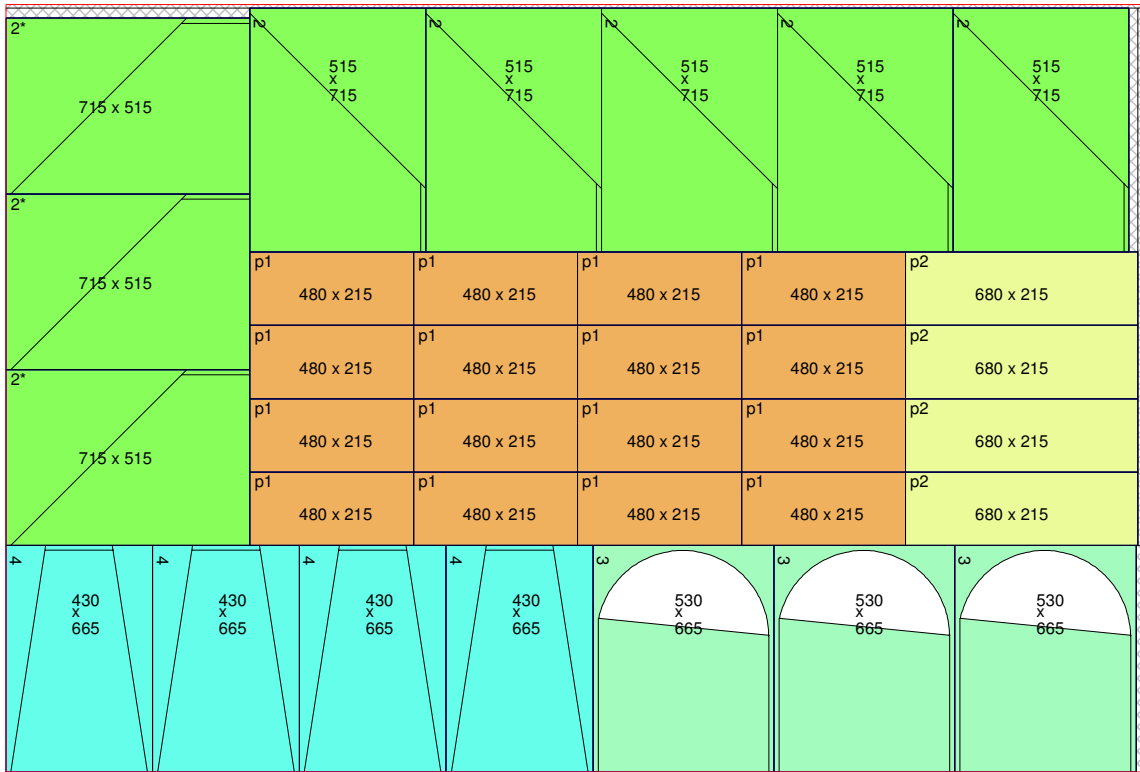
Parts Cut List:

Name	Length	Width	Qty	Remarks Layout-Qty
p1	480	215	19	2-3/1-16
p2	680	215	10	2-6/1-4
2	515	715	12	2-4/1-8
3	530	665	10	2-7/1-3
4	430	665	10	2-6/1-4

Detailed table about Stocks & Parts:

No	Stk Length	Stk Width	Stk Area	Prt Length	Prt Width	Qty	Part Area	Name
1	3350	2250	7.54					
				480	215	16	1.65	p1
				680	215	4	0.58	p2
				515	715	8	2.95	2
				530	665	3	1.06	3
				430	665	4	1.14	4
			97.95 %				7.38	
2	3350	2250	7.54					
				480	215	3	0.31	p1
				680	215	6	0.88	p2
				515	715	4	1.47	2
				530	665	7	2.47	3
				430	665	6	1.72	4
			97.40 %				6.84	

Details of each Layout:



Layout 1 of 2(Stock:3 Dim:3350 x 2250 Qty:1)

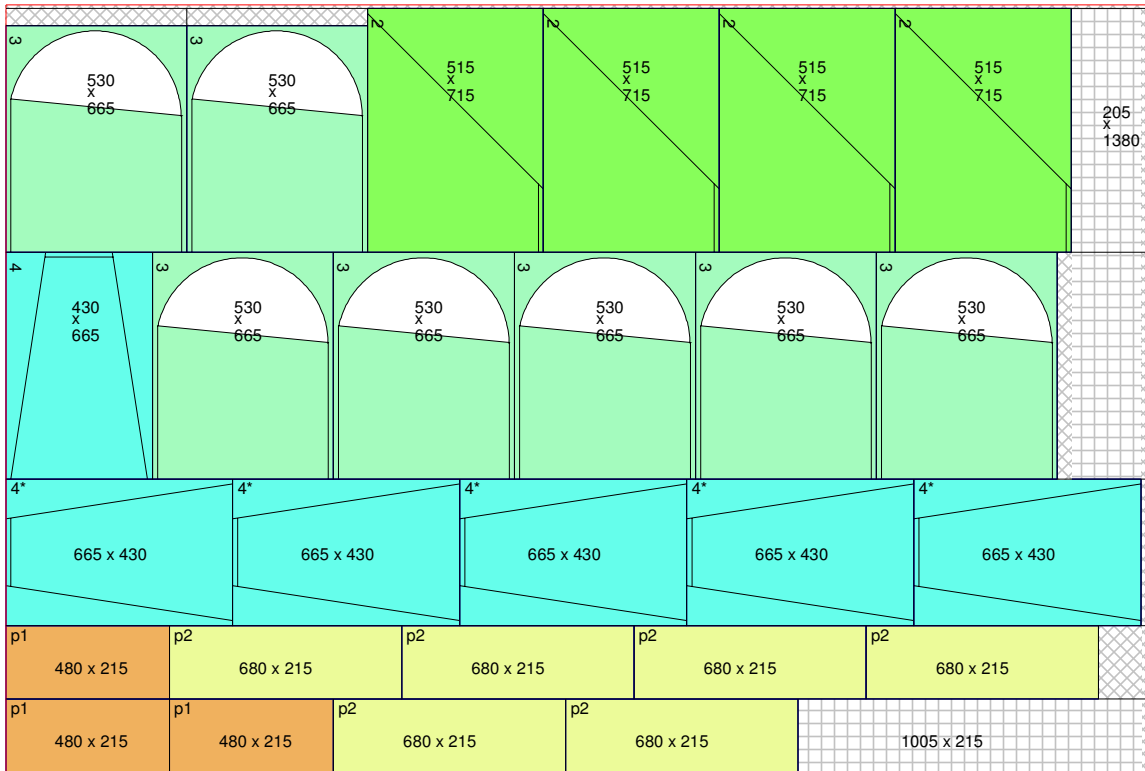
Bill Of Materials:

Name	Length	Width	Qty	Area	Total Qty.	Prod./Re qd.	Remarks
p1	480	215	16	1.65	16	0/19	
p2	680	215	4	0.58	4	0/10	
2	515	715	8	2.95	8	0/12	
3	530	665	3	1.06	3	0/10	
4	430	665	4	1.14	4	0/10	
Total			35	7.38	35		

Cutting Instructions:

CutIndex	StartPt X	StartPt Y	EndPt X	EndPt Y
1	0	665	3350	665
2	430	0	430	665
3	860	0	860	665
4	1290	0	1290	665
5	1720	0	1720	665

CutIndex	StartPt X	StartPt Y	EndPt X	EndPt Y
6	2250	0	2250	665
7	2780	0	2780	665
8	3310	0	3310	665
9	0	2240	3350	2240
10	715	665	715	2240
11	0	1180	715	1180
12	0	1695	715	1695
13	0	2210	715	2210
14	3315	665	3315	2240
15	715	880	3315	880
16	1195	665	1195	880
17	1675	665	1675	880
18	2155	665	2155	880
19	2635	665	2635	880
20	715	1095	3315	1095
21	1195	880	1195	1095
22	1675	880	1675	1095
23	2155	880	2155	1095
24	2635	880	2635	1095
25	715	1310	3315	1310
26	1195	1095	1195	1310
27	1675	1095	1675	1310
28	2155	1095	2155	1310
29	2635	1095	2635	1310
30	715	1525	3315	1525
31	1195	1310	1195	1525
32	1675	1310	1675	1525
33	2155	1310	2155	1525
34	2635	1310	2635	1525
35	1230	1525	1230	2240
36	1745	1525	1745	2240
37	2260	1525	2260	2240
38	2775	1525	2775	2240
39	3290	1525	3290	2240



Layout 2 of 2(Stock:3 Dim:3350 x 2250 Qty:1)

Bill Of Materials:

Name	Length	Width	Qty	Area	Total Qty.	Prod./Re qd.	Remarks
p1	480	215	3	0.31	3*	16/19	
p2	680	215	6	0.88	6*	4/10	
2	515	715	4	1.47	4*	8/12	
3	530	665	7	2.47	7*	3/10	
4	430	665	6	1.72	6*	4/10	
Total			26	6.84	26		
Offcuts							
Off_2_3	1005	215	1	0.22	1		
Off_2_4	205	1380	1	0.28	1		
Total			2	0.5	2		

Cutting Instructions:

CutIndex	StartPt X	StartPt Y	EndPt X	EndPt Y
1	0	215	3350	215
2	480	0	480	215
3	960	0	960	215

CutIndex	StartPt X	StartPt Y	EndPt X	EndPt Y
4	1640	0	1640	215
5	2320	0	2320	215
6	0	430	3350	430
7	480	215	480	430
8	1160	215	1160	430
9	1840	215	1840	430
10	2520	215	2520	430
11	3200	215	3200	430
12	0	860	3350	860
13	665	430	665	860
14	1330	430	1330	860
15	1995	430	1995	860
16	2660	430	2660	860
17	3325	430	3325	860
18	0	1525	3350	1525
19	430	860	430	1525
20	960	860	960	1525
21	1490	860	1490	1525
22	2020	860	2020	1525
23	2550	860	2550	1525
24	3080	860	3080	1525
25	0	2240	3350	2240
26	530	1525	530	2240
27	0	2190	530	2190
28	1060	1525	1060	2240
29	530	2190	1060	2190
30	1575	1525	1575	2240
31	2090	1525	2090	2240
32	2605	1525	2605	2240
33	3120	1525	3120	2240