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PLUS 2D Nesting Software Optimization Report

General Details:

Project Name	
File Name	N:/Plus2D/Samples/pedestalwd.plj
Job No	
Customer	
CustomerId	
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
Stk1	2440	1220	1428.86	100	mdf	12	
Stk2	2440	1830	2143.3	100	mdf	12	

Part Details:

Name	Fin. Length	Fin. Width	Rotn	Qty	Type	Material	Thk	Remarks
Shelf1-Top_&_bottom_cover	1100	400	1	20	Rect	mdf	12	
Shelf1-Side_cover	400	600	1	60	Rect	mdf	12	[Shelf1 - Shiefl_Door-20] [Shelf1 - Side_c over-40]
Shelf1-Back_cover	1100	600	1	10	Rect	mdf	12	
Shelf1-Drawer_Door	300	200	1	30	Rect	mdf	12	

Summary of Optimization Results:

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Grinding Margin	0
Saw Width	3
Number of Layouts	4
Number of Stock Used	8
Total Utilization	96.50 %
Total Parts Required	120
Total Parts Nested	120
Reusable Offcuts	0
Total Stock Area	32.74
Total Part Area	31.6
Offcut Area	0
Scrap Area	1.14
Total Stock Weight	157.18
Total Part Weight	151.68
Total Offcut Weight	0
Total Scrap Weight	5.5
ScrapWt/PartWt	3.62 %

Summary of Layouts:

No	Name	Qty	Util%	Cost	Parts	Offcut Qty - Size
1	Stk1	1	96.75	1428.86	12	0
2	Stk1	1	94.06	1428.86	13	0
3	Stk2	1	96.75	2143.30	20	0
4	Stk2	5	96.75	10716.48	75	0

Parts Summary Table:

No	Name	Size and Mate (L x W, [Mate,Thk])	Nested (Required)	Area	Weight	Remarks
1	Shelf1-Top_&_bottom_cover	1100 x 400, [mdf,12]	20 (20)	8.8	823.68	
2	Shelf1-Side_cover	400 x 600, [mdf,12]	60 (60)	14.4	1347.84	[Shelf1-Shielf_Door-20] [Shelf1-Side_cover-40]
3	Shelf1-Back_cove r	1100 x 600, [mdf,12]	10 (10)	6.6	617.76	
4	Shelf1-Drower_D oor	300 x 200, [mdf,12]	30 (30)	1.8	168.48	
		Total	120 (120)	31.6	2957.76	

Stocks used details:

No	Name	Length	Width	Avail Qty	Utl Qty	Area	Material	Thk
1	Stk1	2440	1220	100	2	5.95	mdf	12
2	Stk2	2440	1830	100	6	26.79	mdf	12
	Total				8	32.74		

Offcut Details :

Id	Length	Width	Cost	Qty	Area	Material	Thk
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Parts Cut List:

Name	Length	Width	Qty	Remarks Layout-Qty	Material	Thk
Shelf1- Top_&_bottom_cover	1100	400	20	4-15/3-3/2-2	mdf	12
Shelf1-Side_cover	400	600	60	4-30/3-11/2-7/1-12	mdf	12
Shelf1-Back_cover	1100	600	10	4-10	mdf	12
Shelf1-Drower_Door	300	200	30	4-20/3-6/2-4	mdf	12

Detailed table about Stocks & Parts:

No	Stk Length	Stk Width	Stk Area	Prt Length	Prt Width	Qty	Part Area	Name
1	2440	1220	2.98					
				400	600	12	2.88	Shelf1-Side_cover
			96.75 %				2.88	
2	2440	1220	2.98					
				1100	400	2	0.88	Shelf1-Top_&_bottom_cover
				400	600	7	1.68	Shelf1-Side_cover
				300	200	4	0.24	Shelf1-Drawer_Door
			94.06 %				2.8	
3	2440	1830	4.47					
				1100	400	3	1.32	Shelf1-Top_&_bottom_cover
				400	600	11	2.64	Shelf1-Side_cover
				300	200	6	0.36	Shelf1-Drawer_Door
			96.75 %				4.32	
4	2440	1830	4.47					
				1100	400	3	1.32	Shelf1-Top_&_bottom_cover
				400	600	6	1.44	Shelf1-Side_cover
				1100	600	2	1.32	Shelf1-Back_cover
				300	200	4	0.24	Shelf1-Drawer_Door
			96.75 %				4.32	

Details of each Layout:

Shelf1-Side cover 400 x 600	Shelf1-Side cover 400 x 600	Shelf1-Side cover 400 x 600	Shelf1-Side cover 400 x 600	Shelf1-Side cover 400 x 600	Shelf1-Side cover 400 x 600
Shelf1-Side cover 400 x 600	Shelf1-Side cover 400 x 600	Shelf1-Side cover 400 x 600	Shelf1-Side cover 400 x 600	Shelf1-Side cover 400 x 600	Shelf1-Side cover 400 x 600

Layout 1 of 4(Stock:Stk1 Dim:2440 x 1220 Qty:1 Material:mdf Thk:12)

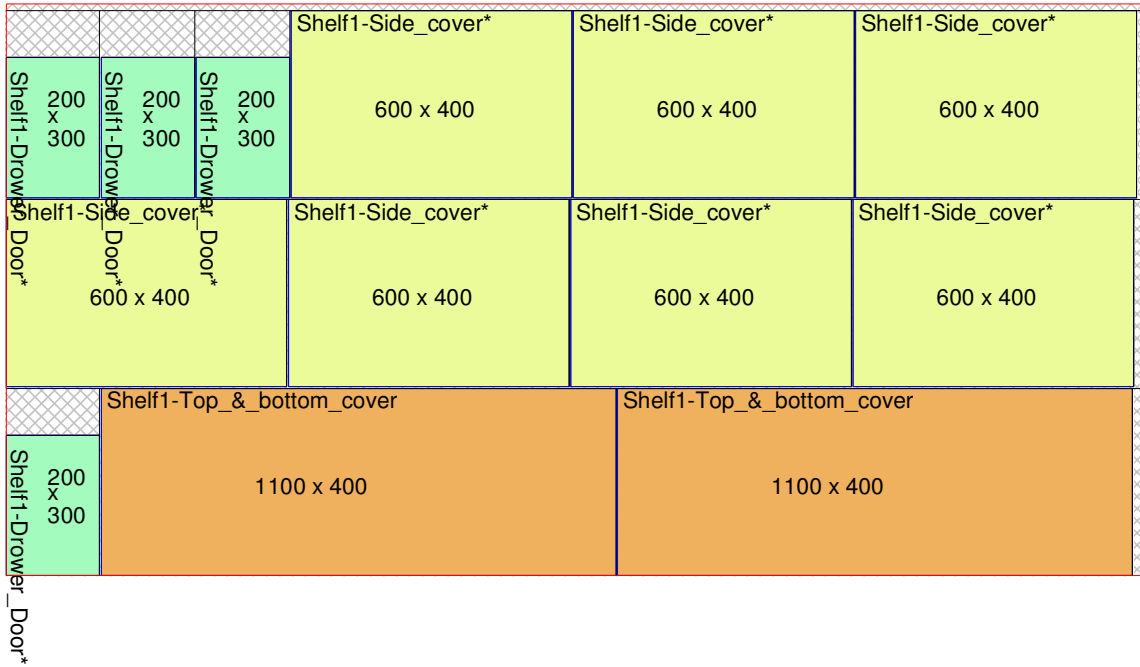
Bill Of Materials:

Name	Length	Width	Qty	Area	Total Qty.	Prod./Re qd.	Remarks
Shelf1-Side_cover	400	600	12	2.88	12	0/60	[Shelf 1- Shiefl_Door -20] [Shelf 1- Side_cover-40]
Total			12	2.88	12		

Cutting Instructions:

CutIndex	StartPt X	StartPt Y	EndPt X	EndPt Y
1	0	600	2440	600
2	400	0	400	600
3	802.99	0	802.99	600
4	1205.99	0	1205.99	600
5	1608.99	0	1608.99	600

CutIndex	StartPt X	StartPt Y	EndPt X	EndPt Y
6	2011.99	0	2011.99	600
7	2414.98	0	2414.98	600
8	0	1202.99	2440	1202.99
9	400	603	400	1202.99
10	802.99	603	802.99	1202.99
11	1205.99	603	1205.99	1202.99
12	1608.99	603	1608.99	1202.99
13	2011.99	603	2011.99	1202.99
14	2414.98	603	2414.98	1202.99



Layout 2 of 4(Stock:Stk1 Dim:2440 x 1220 Qty:1 Material:mdf Thk:12)

Bill Of Materials:

Name	Length	Width	Qty	Area	Total Qty.	Prod./Re qd.	Remarks
Shelf1-Top_&_bottom_cover	1100	400	2	0.88	2	0/20	
Shelf1-Side_cover	400	600	7	1.68	7	12/60	[Shelf 1- Shief _Door -20] [Shelf 1- Side_ cover-40]
Shelf1-Drower_Door	300	200	4	0.24	4	0/30	
Total			13	2.8	13		

Cutting Instructions:

CutIndex	StartPt X	StartPt Y	EndPt X	EndPt Y
1	0	400	2440	400
2	200	0	200	400
3	0	300	200	300

CutIndex	StartPt X	StartPt Y	EndPt X	EndPt Y
4	1302.99	0	1302.99	400
5	2405.99	0	2405.99	400
6	0	802.99	2440	802.99
7	600	403	600	802.99
8	1202.99	403	1202.99	802.99
9	1805.99	403	1805.99	802.99
10	2408.99	403	2408.99	802.99
11	0	1205.99	2440	1205.99
12	200	805.99	200	1205.99
13	0	1105.99	200	1105.99
14	402.99	805.99	402.99	1205.99
15	203	1105.99	402.99	1105.99
16	605.99	805.99	605.99	1205.99
17	405.99	1105.99	605.99	1105.99
18	1208.99	805.99	1208.99	1205.99
19	1811.99	805.99	1811.99	1205.99
20	2414.98	805.99	2414.98	1205.99

Shelf1-Side_cover	400 x 600	Shelf1-Side_cover	400 x 600	Shelf1-Side_cover	400 x 600	Shelf1-Top & bottom cover*	400 x 1100	Shelf1-Top & bottom cover*	400 x 1100	Shelf1-Top & bottom cover*	400 x 1100
Shelf1-Side_cover	400 x 600	Shelf1-Side_cover	400 x 600	Shelf1-Side_cover	400 x 600	Shelf1-Side_cover*	600 x 400		Shelf1-Side_cover*	600 x 400	
Shelf1-Side_cover	400 x 600	Shelf1-Side_cover	400 x 600	Shelf1-Side_cover	400 x 600	Shelf1-Drawer_Door*	200 x 300	Shelf1-Drawer_Door*	200 x 300	Shelf1-Drawer_Door*	200 x 300
Shelf1-Side_cover	400 x 600	Shelf1-Side_cover	400 x 600	Shelf1-Side_cover	400 x 600	Shelf1-Drawer_Door*	200 x 300	Shelf1-Drawer_Door*	200 x 300	Shelf1-Drawer_Door*	200 x 300
Shelf1-Side_cover	400 x 600	Shelf1-Side_cover	400 x 600	Shelf1-Side_cover	400 x 600	Shelf1-Drawer_Door*	200 x 300	Shelf1-Drawer_Door*	200 x 300	Shelf1-Drawer_Door*	200 x 300
Shelf1-Side_cover	400 x 600	Shelf1-Side_cover	400 x 600	Shelf1-Side_cover	400 x 600	Shelf1-Drawer_Door*	200 x 300	Shelf1-Drawer_Door*	200 x 300	Shelf1-Drawer_Door*	200 x 300

Layout 3 of 4(Stock:Stk2 Dim:2440 x 1830 Qty:1 Material:mdf Thk:12)

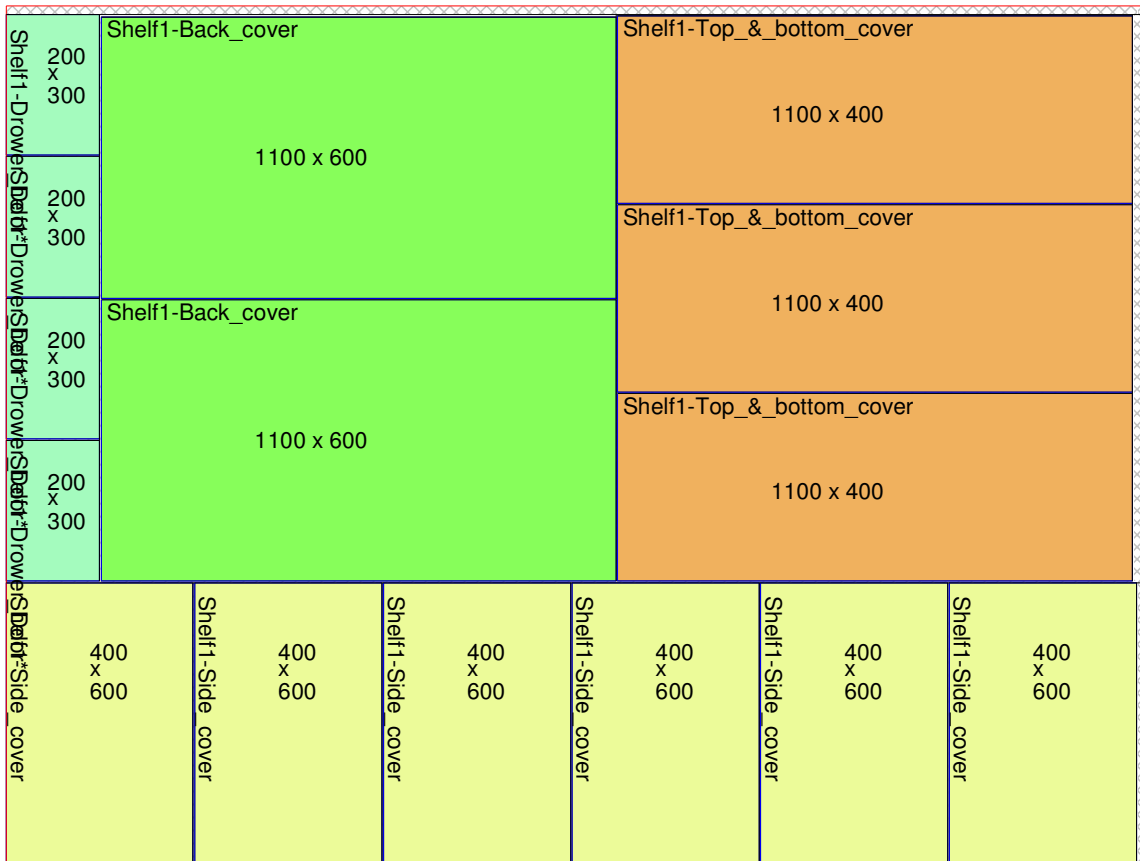
Bill Of Materials:

Name	Length	Width	Qty	Area	Total Qty.	Prod./Re qd.	Remarks
Shelf1-Top_&_bottom_cover	1100	400	3	1.32	3	2/20	
Shelf1-Side_cover	400	600	11	2.64	11	19/60	[Shelf 1- Shielf _Door -20] [Shelf 1- Side_cover-

Name	Length	Width	Qty	Area	Total Qty.	Prod./Re qd.	Remarks
							40]
Shelf1-Drower_Door	300	200	6	0.36	6	4/30	
Total			20	4.32	20		

Cutting Instructions:

CutIndex	StartPt X	StartPt Y	EndPt X	EndPt Y
1	400	0	400	1830
2	0	600	400	600
3	0	1202.99	400	1202.99
4	0	1805.99	400	1805.99
5	802.99	0	802.99	1830
6	403	600	802.99	600
7	403	1202.99	802.99	1202.99
8	403	1805.99	802.99	1805.99
9	1205.99	0	1205.99	1830
10	805.99	600	1205.99	600
11	805.99	1202.99	1205.99	1202.99
12	805.99	1805.99	1205.99	1805.99
13	2423.97	0	2423.97	1830
14	1208.99	300	2423.97	300
15	1408.99	0	1408.99	300
16	1611.99	0	1611.99	300
17	1814.98	0	1814.98	300
18	2017.98	0	2017.98	300
19	2220.98	0	2220.98	300
20	2423.97	0	2423.97	300
21	1208.99	702.99	2423.97	702.99
22	1808.99	303	1808.99	702.99
23	2411.99	303	2411.99	702.99
24	1208.99	1805.99	2423.97	1805.99
25	1608.99	705.99	1608.99	1805.99
26	2011.99	705.99	2011.99	1805.99
27	2414.98	705.99	2414.98	1805.99



Layout 4 of 4(Stock:Stk2 Dim:2440 x 1830 Qty:5 Material:mdf Thk:12)

Bill Of Materials:

Name	Length	Width	Qty	Area	Total Qty.	Prod./Re qd.	Remarks
Shelf1-Top_&_bottom_cover	1100	400	3	1.32	15*	5/20	
Shelf1-Side_cover	400	600	6	1.44	30*	30/60	[Shelf 1- Shief _Door -20] [Shelf 1- Side_ cover-40]
Shelf1-Back_cover	1100	600	2	1.32	10*	0/10	
Shelf1-Drower_Door	300	200	4	0.24	20*	10/30	

Name	Length	Width	Qty	Area	Total Qty.	Prod./Re qd.	Remarks
Total			15	4.32	75		

Cutting Instructions:

CutIndex	StartPt X	StartPt Y	EndPt X	EndPt Y
1	0	600	2440	600
2	400	0	400	600
3	802.99	0	802.99	600
4	1205.99	0	1205.99	600
5	1608.99	0	1608.99	600
6	2011.99	0	2011.99	600
7	2414.98	0	2414.98	600
8	0	1811.99	2440	1811.99
9	200	603	200	1811.99
10	0	902.99	200	902.99
11	0	1205.99	200	1205.99
12	0	1508.99	200	1508.99
13	1302.99	603	1302.99	1811.99
14	203	1202.99	1302.99	1202.99
15	203	1805.99	1302.99	1805.99
16	2405.99	603	2405.99	1811.99
17	1305.99	1002.99	2405.99	1002.99
18	1305.99	1405.99	2405.99	1405.99
19	1305.99	1808.99	2405.99	1808.99