Nesting report 12 mm / S355JR

Test Model | JOB-20261119-081919 | Revision R0

Case

Single plate thickness: 12 mm / S355JR

Mode	2D plate sheets
Generated	2026-11-19T08:19 +00:00
Run status	Incomplete
Currency	USD (USD)

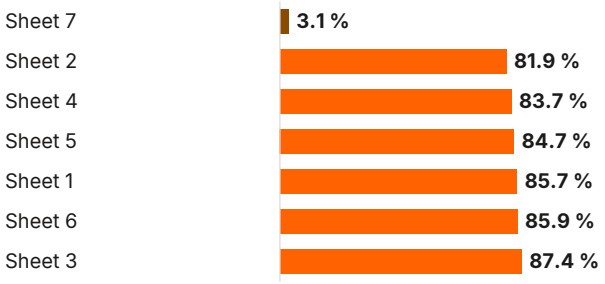
Summary

Sheets to buy **7**	Parts placed **706 / 706**	Utilisation **73.2 %**	Waste **11.0 %**
Cuts **706**	Remnants created **27**	Purchase total **USD5,934.60**	

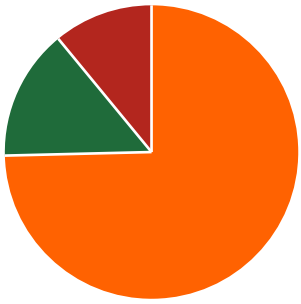
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Analytics

Utilisation per sheet (worst first)



Material split by weight



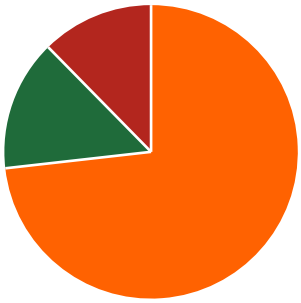
Used in parts
4,428.1 kg (74.6 %)

Remnants kept
856.0 kg (14.4 %)

Waste (scrap and kerf)
650.5 kg (11.0 %)

Total stock 5,934.6 kg at 7850 kg/m3.

Cost breakdown



Parts value
USD4,344.74 (73.2 %)

Remnant value
USD856.02 (14.4 %)

Waste cost
USD733.84 (12.4 %)

Stock cost USD5,934.60.

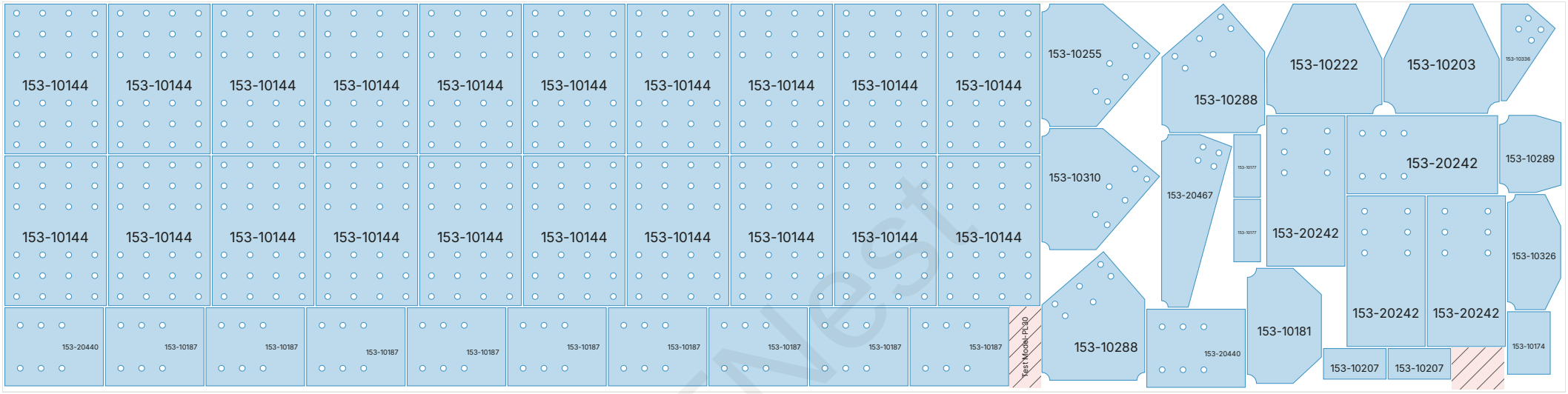
Purchase list

Group	Stock	Count	Size	Unit price	Total
12 mm / S355JR	O4	7	1500 mm x 6000 mm	USD847.80	USD5,934.60

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Sheet 1 of 7 | 12 mm / S355JR | 1500 mm x 6000 mm

Utilisation 85.7 % | Parts 51 | Remnant area 69,477 mm² (Test Model-PL30, Test Model-PL31) | Scale 1 : 22



Scale bar 500 mm

Part mark	Size	Count
153-10144	575 mm x 390 mm	20
153-10174	240 mm x 163.8 mm	1
153-10177	240 mm x 102.3 mm	2
153-10181	442 mm x 284.1 mm	1
153-10187	378 mm x 300 mm	9
153-10203	442 mm x 419.4 mm	1
153-10207	240 mm x 117.7 mm	2
153-10222	442 mm x 420.6 mm	1
153-10255	470 mm x 452.3 mm	1
153-10288	493.6 mm x 394.3 mm	2
153-10289	296 mm x 234.9 mm	1
153-10310	465 mm x 451.1 mm	1
153-10326	442 mm x 204 mm	1
153-10336	371.2 mm x 206.9 mm	1
153-20242	578 mm x 300 mm	4
153-20440	378 mm x 300 mm	2

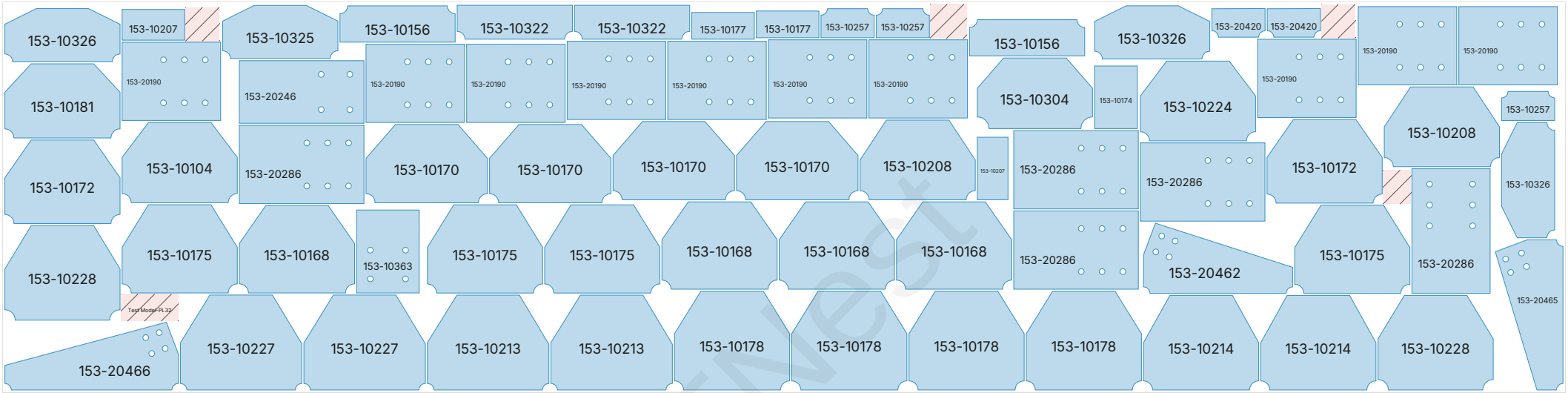
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Part mark	Size	Count
153-20467	662.2 mm x 269.2 mm	1
Test Model-PL30	310 mm x 120 mm	1
Test Model-PL31	161.4 mm x 200 mm	1

PLTNest

Sheet 2 of 7 | 12 mm / S355JR | 6000 mm x 1500 mm

Utilisation 81.9 % | Parts 70 | Remnant area 89,161 mm² (Test Model-PL32, Test Model-PL33, Test Model-PL34, Test Model-PL35, Test Model-PL34) | Scale 1 : 22



Scale bar 500 mm

Part mark	Size	Count
153-10104	442 mm x 307.4 mm	1
153-10156	442 mm x 139 mm	2
153-10168	442 mm x 334.8 mm	4
153-10170	466 mm x 300.2 mm	4
153-10172	442 mm x 320.4 mm	2
153-10174	240 mm x 163.8 mm	1
153-10175	442 mm x 338.2 mm	4
153-10177	240 mm x 102.3 mm	2
153-10178	442 mm x 378.6 mm	4
153-10181	442 mm x 284.1 mm	1
153-10207	240 mm x 117.7 mm	2
153-10208	442 mm x 305.7 mm	2
153-10213	466 mm x 363.8 mm	2
153-10214	442 mm x 362.5 mm	2
153-10224	442 mm x 305.7 mm	1
153-10227	466 mm x 364.1 mm	2

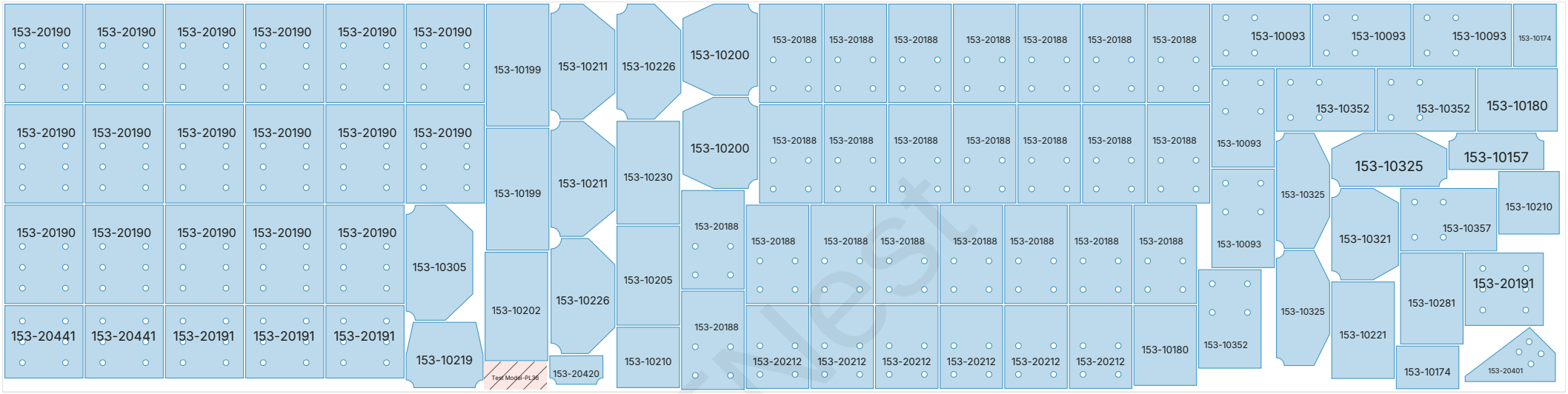
PLTNest

Part mark	Size	Count
153-10228	442 mm x 362.5 mm	2
153-10257	204 mm x 111.3 mm	3
153-10304	442 mm x 270.6 mm	1
153-10322	442 mm x 130 mm	2
153-10325	442 mm x 204 mm	1
153-10326	442 mm x 204 mm	3
153-10363	318 mm x 240 mm	1
153-20190	378 mm x 300 mm	10
153-20246	478 mm x 240 mm	1
153-20286	478 mm x 300 mm	5
153-20420	204.4 mm x 110 mm	2
153-20462	572.2 mm x 269.2 mm	1
153-20465	575.7 mm x 259.8 mm	1
153-20466	665.7 mm x 259.8 mm	1
Test Model-PL32	220 mm x 104.3 mm	1
Test Model-PL33	106.2 mm x 130 mm	1
Test Model-PL34	130 mm x 130 mm	1
Test Model-PL35	140 mm x 132.9 mm	1
Test Model-PL34	130 mm x 130 mm	1

PLTNest

Sheet 3 of 7 | 12 mm / S355JR | 1500 mm x 6000 mm

Utilisation 87.4 % | Parts 89 | Remnant area 25,640 mm² (Test Model-PL36) | Scale 1 : 22



Scale bar 500 mm

Part mark	Size	Count
153-10093	378 mm x 240 mm	5
153-10157	364 mm x 139 mm	1
153-10174	240 mm x 163.8 mm	2
153-10180	306.1 mm x 240 mm	2
153-10199	468.5 mm x 240 mm	2
153-10200	285.8 mm x 350 mm	2
153-10202	416.2 mm x 240 mm	1
153-10205	380.3 mm x 240 mm	1
153-10210	240 mm x 231.9 mm	2
153-10211	442 mm x 245.1 mm	2
153-10219	295 mm x 251 mm	1
153-10221	370.7 mm x 240 mm	1
153-10226	442 mm x 245.1 mm	2
153-10230	394.6 mm x 240 mm	1
153-10281	349.3 mm x 240 mm	1
153-10305	442 mm x 255.8 mm	1

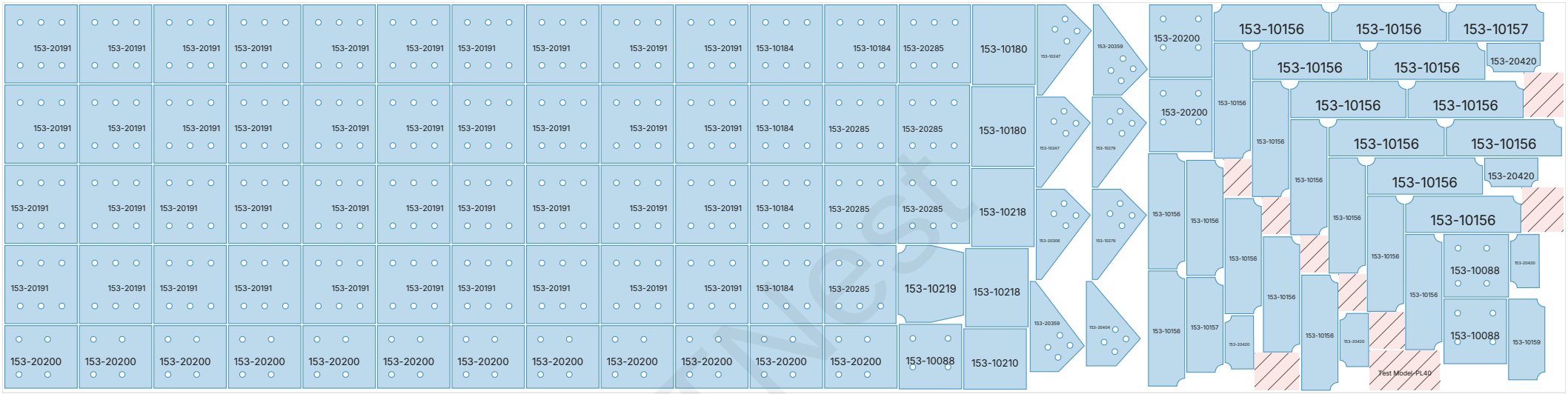
PLTNest

Part mark	Size	Count
153-10321	351 mm x 256.2 mm	1
153-10325	442 mm x 204 mm	3
153-10352	378 mm x 240 mm	3
153-10357	369 mm x 240 mm	1
153-20188	378 mm x 240 mm	23
153-20190	378 mm x 300 mm	17
153-20191	278 mm x 300 mm	4
153-20212	318 mm x 240 mm	6
153-20401	346.1 mm x 207.4 mm	1
153-20420	204.4 mm x 110 mm	1
153-20441	278 mm x 300 mm	2
Test Model-PL36	106.8 mm x 240 mm	1

PLTNest

Sheet 4 of 7 | 12 mm / S355JR | 1500 mm x 6000 mm

Utilisation 83.7 % | Parts 112 | Remnant area 195,169 mm² (Test Model-PL37, Test Model-PL38, Test Model-PL37, Test Model-PL37, Test Model-PL37, Test Model-PL39, Test Model-PL40, Test Model-PL41, Test Model-PL42) | Scale 1 : 22



Scale bar 500 mm

Part mark	Size	Count
153-10088	248 mm x 240 mm	3
153-10156	442 mm x 139 mm	22
153-10157	364 mm x 139 mm	2
153-10159	310 mm x 139 mm	1
153-10180	306.1 mm x 240 mm	2
153-10184	278 mm x 300 mm	5
153-10210	240 mm x 231.9 mm	1
153-10218	240 mm x 300 mm	2
153-10219	295 mm x 251 mm	1
153-10247	346.1 mm x 207.4 mm	2
153-10279	346.1 mm x 207.4 mm	2
153-20191	278 mm x 300 mm	40
153-20200	278 mm x 240 mm	14
153-20285	274 mm x 300 mm	6
153-20306	346.1 mm x 207.4 mm	1

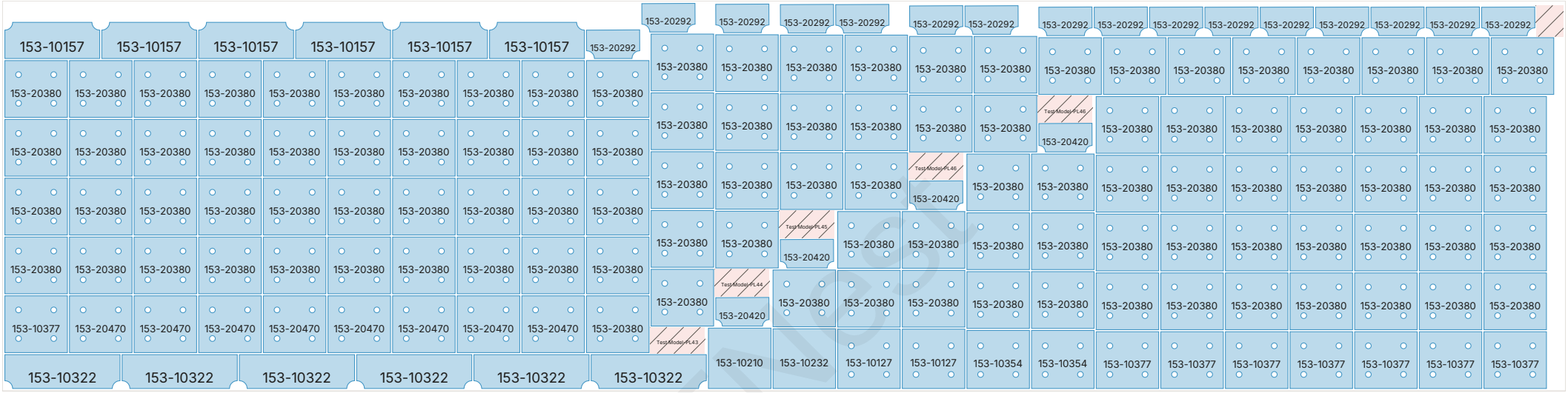
PLTNest

Part mark	Size	Count
153-20359	346.1 mm x 207.4 mm	2
153-20404	324.1 mm x 207.3 mm	1
153-20420	204.4 mm x 110 mm	5
Test Model-PL37	140 mm x 105 mm	1
Test Model-PL38	143 mm x 170 mm	1
Test Model-PL37	140 mm x 105 mm	1
Test Model-PL37	140 mm x 105 mm	1
Test Model-PL37	140 mm x 105 mm	1
Test Model-PL39	140 mm x 134 mm	1
Test Model-PL40	152 mm x 270 mm	1
Test Model-PL41	170 mm x 158.2 mm	1
Test Model-PL42	170 mm x 149.2 mm	1

PLTNest

Sheet 5 of 7 | 12 mm / S355JR | 6000 mm x 1500 mm

Utilisation 84.7 % | Parts 161 | Remnant area 121,725 mm² (Test Model-PL43, Test Model-PL44, Test Model-PL45, Test Model-PL46, Test Model-PL46, Test Model-PL47) | Scale 1 : 22



Scale bar 500 mm

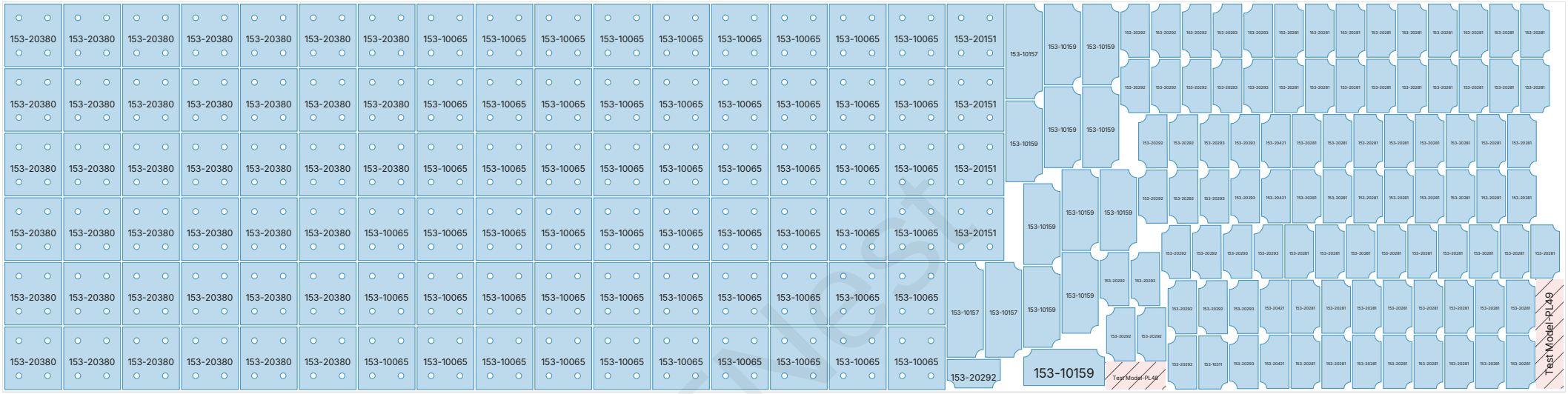
Part mark	Size	Count
153-10127	240 mm x 228 mm	2
153-10157	364 mm x 139 mm	6
153-10210	240 mm x 231.9 mm	1
153-10232	240 mm x 229.3 mm	1
153-10322	442 mm x 130 mm	6
153-10354	240 mm x 223 mm	2
153-10377	240 mm x 218 mm	8
153-20292	204.4 mm x 110 mm	16
153-20380	240 mm x 218 mm	107
153-20420	204.4 mm x 110 mm	4
153-20470	240 mm x 218 mm	8
Test Model-PL43	210 mm x 101.9 mm	1
Test Model-PL44	210 mm x 105.3 mm	1
Test Model-PL45	210 mm x 106.7 mm	1
Test Model-PL46	210 mm x 103 mm	1
Test Model-PL46	210 mm x 103 mm	1

Part mark	Size	Count
Test Model-PL47	104.5 mm x 120 mm	1

PLTNest

Sheet 6 of 7 | 12 mm / S355JR | 1500 mm x 6000 mm

Utilisation 85.9 % | Parts 210 | Remnant area 67,921 mm² (Test Model-PL48, Test Model-PL49) | Scale 1 : 22



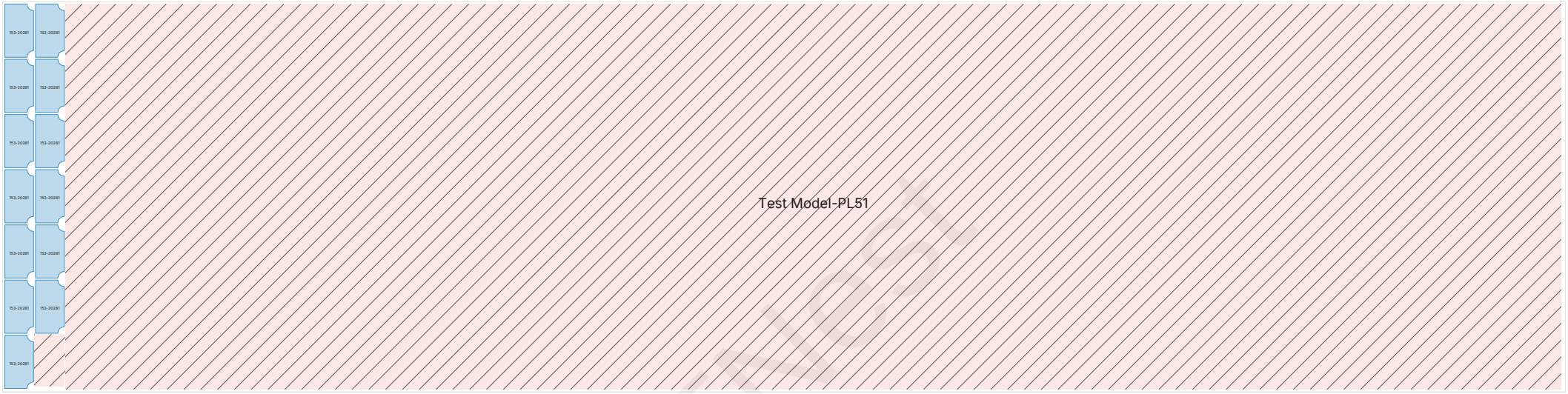
Scale bar 500 mm

Part mark	Size	Count
153-10065	240 mm x 218 mm	57
153-10157	364 mm x 139 mm	3
153-10159	310 mm x 139 mm	11
153-10311	204 mm x 110 mm	1
153-20151	240 mm x 218 mm	4
153-20281	204 mm x 110 mm	59
153-20292	204.4 mm x 110 mm	20
153-20293	204 mm x 110 mm	12
153-20380	240 mm x 218 mm	39
153-20421	204 mm x 110 mm	4
Test Model-PL48	105.3 mm x 230 mm	1
Test Model-PL49	420 mm x 104 mm	1

PLTNest

Sheet 7 of 7 | 12 mm / S355JR | 1500 mm x 6000 mm

Utilisation 3.1 % | Parts 13 | Remnant area 8.52 m² (Test Model-PL50, Test Model-PL51) | Scale 1 : 22



Scale bar 500 mm

Part mark	Size	Count
153-20281	204 mm x 110 mm	13
Test Model-PL50	200 mm x 115 mm	1
Test Model-PL51	1480 mm x 5740 mm	1

Remnants

Sheet	Remnant	Position	Size	Area
12 mm / S355JR / 1	Test Model-PL30	1172 mm, 3866 mm	310 mm x 120 mm	37,196 mm²
12 mm / S355JR / 1	Test Model-PL31	1328.6 mm, 5562.4 mm	161.4 mm x 200 mm	32,281 mm²
12 mm / S355JR / 2	Test Model-PL32	456 mm, 273.8 mm	220 mm x 104.3 mm	22,950 mm²
12 mm / S355JR / 2	Test Model-PL33	5299.7 mm, 722.7 mm	106.2 mm x 130 mm	13,802 mm²
12 mm / S355JR / 2	Test Model-PL34	704 mm, 1347.8 mm	130 mm x 130 mm	16,900 mm²
12 mm / S355JR / 2	Test Model-PL35	3562 mm, 1357.1 mm	140 mm x 132.9 mm	18,609 mm²
12 mm / S355JR / 2	Test Model-PL34	5062.8 mm, 1359.1 mm	130 mm x 130 mm	16,900 mm²
12 mm / S355JR / 3	Test Model-PL36	1383.2 mm, 1849 mm	106.8 mm x 240 mm	25,640 mm²
12 mm / S355JR / 4	Test Model-PL37	603 mm, 4688.8 mm	140 mm x 105 mm	14,698 mm²
12 mm / S355JR / 4	Test Model-PL38	1347 mm, 4806.8 mm	143 mm x 170 mm	24,309 mm²
12 mm / S355JR / 4	Test Model-PL37	750 mm, 4835.8 mm	140 mm x 105 mm	14,698 mm²
12 mm / S355JR / 4	Test Model-PL37	897 mm, 4982.8 mm	140 mm x 105 mm	14,698 mm²
12 mm / S355JR / 4	Test Model-PL37	1044 mm, 5129.8 mm	140 mm x 105 mm	14,698 mm²
12 mm / S355JR / 4	Test Model-PL39	1191 mm, 5247.8 mm	140 mm x 134 mm	18,758 mm²
12 mm / S355JR / 4	Test Model-PL40	1338 mm, 5247.8 mm	152 mm x 270 mm	41,038 mm²
12 mm / S355JR / 4	Test Model-PL41	712 mm, 5831.8 mm	170 mm x 158.2 mm	26,900 mm²
12 mm / S355JR / 4	Test Model-PL42	271 mm, 5840.8 mm	170 mm x 149.2 mm	25,370 mm²
12 mm / S355JR / 5	Test Model-PL43	2486 mm, 144 mm	210 mm x 101.9 mm	21,399 mm²
12 mm / S355JR / 5	Test Model-PL44	2734 mm, 363.9 mm	210 mm x 105.3 mm	22,121 mm²
12 mm / S355JR / 5	Test Model-PL45	2982 mm, 587.3 mm	210 mm x 106.7 mm	22,413 mm²
12 mm / S355JR / 5	Test Model-PL46	3478 mm, 812 mm	210 mm x 103 mm	21,627 mm²
12 mm / S355JR / 5	Test Model-PL46	3974 mm, 1033 mm	210 mm x 103 mm	21,627 mm²
12 mm / S355JR / 5	Test Model-PL47	5885.5 mm, 1362 mm	104.5 mm x 120 mm	12,538 mm²
12 mm / S355JR / 6	Test Model-PL48	1384.7 mm, 4234 mm	105.3 mm x 230 mm	24,227 mm²
12 mm / S355JR / 6	Test Model-PL49	1066 mm, 5886 mm	420 mm x 104 mm	43,694 mm²
12 mm / S355JR / 7	Test Model-PL50	1278 mm, 124 mm	200 mm x 115 mm	23,000 mm²
12 mm / S355JR / 7	Test Model-PL51	10 mm, 242 mm	1480 mm x 5740 mm	8.50 m²

Unplaced parts

Every part is placed.

Basis

Kerf	3 mm
Start / end trim	0 mm / 0 mm
Grip loss	0 mm
Part spacing	8 mm
Sheet margin	10 mm
Waste	n/a

Geometry exchange file. Verify with CAM before cutting.

Validation

Code	Context
EXP-0105	A part label does not fit its part, so it was not drawn. The part mark is listed in the manifest. (12 mm / S355JR sheet 1: 1 label(s) left out)
EXP-0105	A part label does not fit its part, so it was not drawn. The part mark is listed in the manifest. (12 mm / S355JR sheet 2: 4 label(s) left out)
EXP-0105	A part label does not fit its part, so it was not drawn. The part mark is listed in the manifest. (12 mm / S355JR sheet 4: 8 label(s) left out)
EXP-0105	A part label does not fit its part, so it was not drawn. The part mark is listed in the manifest. (12 mm / S355JR sheet 5: 1 label(s) left out)

PLTNest

Code	Context
EXP-0105	A part label does not fit its part, so it was not drawn. The part mark is listed in the manifest. (12 mm / S355JR sheet 7: 1 label(s) left out)

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