

Supplementary Materials

Table S1. Physical properties of plantation Japanese larch for ring width and latewood percentage.

Specimen Number	Latewood Percentage (%)	Ring Width (mm)	Air-dry Density (g/cm ³)	Radial Air-dry Shrinkage (%)
1	31.09	2.85	0.460	2.76
2	12.04	2.22	0.393	2.81
3	25.69	1.32	0.432	3.79
4	26.62	3.96	0.436	2.84
5	12.79	4.04	0.406	3.34
6	27.87	4.95	0.436	2.84
7	25.40	3.25	0.459	2.77
8	15.93	4.48	0.378	3.41
9	27.16	1.99	0.400	2.48
10	29.02	3.95	0.444	3.54
11	28.07	2.85	0.439	2.48
12	20.73	2.83	0.374	2.24
13	16.22	3.97	0.414	3.23
14	27.45	2.81	0.477	2.83
15	25.34	2.84	0.439	2.67
16	12.59	5.01	0.410	3.39
17	32.96	5.49	0.453	2.06
18	24.89	3.35	0.366	2.00
19	26.18	3.30	0.424	2.82
20	35.78	2.84	0.466	2.75
21	13.54	3.92	0.448	3.12
22	19.36	4.05	0.428	2.50
23	21.32	2.66	0.385	2.02
24	27.80	2.21	0.401	2.57
25	31.21	2.85	0.484	2.50
26	22.84	1.98	0.446	2.87
27	15.72	3.99	0.393	2.24
28	32.58	6.58	0.444	2.10
29	36.07	2.84	0.442	3.20
30	21.82	2.87	0.372	3.05
31	11.67	6.69	0.352	3.45
32	20.34	4.51	0.445	3.37
33	25.92	1.09	0.428	3.37
34	24.06	3.05	0.437	3.24
35	26.14	2.10	0.429	2.09
36	30.47	2.72	0.425	3.47
37	26.79	1.99	0.401	2.49
38	25.01	2.77	0.398	2.06
39	32.86	1.98	0.448	3.00
40	33.00	2.84	0.463	2.91
41	22.08	4.04	0.412	2.88
42	27.14	2.49	0.389	2.31
43	20.43	3.32	0.441	2.85

44	32.58	3.30	0.405	1.64
45	25.27	2.50	0.512	3.54
46	18.86	2.86	0.376	2.51
47	20.02	3.97	0.417	3.10
48	25.30	1.99	0.406	2.56
49	20.70	1.53	0.434	2.21
50	10.73	1.23	0.440	2.97
51	27.44	2.00	0.514	2.09
52	25.15	4.02	0.451	2.88
53	36.24	2.87	0.422	3.25
54	10.98	1.53	0.511	3.62
55	16.38	2.80	0.403	2.76
56	29.63	1.99	0.411	2.55
57	28.67	2.83	0.396	3.03
58	21.39	4.00	0.423	3.48
59	25.47	2.34	0.471	3.06
60	20.75	2.85	0.376	2.08
61	25.30	4.94	0.458	2.10
62	18.91	3.33	0.379	2.11
63	22.58	1.80	0.441	3.32
64	17.65	2.46	0.395	2.80
65	23.65	4.60	0.428	3.56
66	12.99	4.04	0.414	2.47
67	31.48	3.32	0.438	2.67
68	22.64	3.98	0.464	2.42
69	16.92	3.98	0.401	2.43
70	28.39	3.29	0.430	2.92
71	18.02	4.03	0.412	3.65
72	28.23	2.84	0.397	2.65
73	22.09	3.98	0.416	2.26
74	33.42	3.34	0.465	2.51
75	22.19	3.99	0.428	2.51
76	23.44	2.21	0.401	2.48
77	28.28	3.08	0.435	2.64
78	12.51	3.98	0.381	2.54
79	28.07	2.84	0.397	2.89
80	20.17	2.79	0.420	3.12
81	34.42	2.79	0.454	3.77
82	25.17	2.78	0.412	4.63
83	12.85	3.96	0.395	2.44
84	21.65	1.73	0.454	3.20
85	20.73	5.75	0.454	3.36
86	29.33	2.84	0.376	1.94
87	24.43	1.81	0.426	2.40
88	25.99	1.98	0.448	2.82
89	18.71	5.95	0.430	3.26
90	15.00	4.95	0.374	2.61
91	16.38	4.00	0.433	2.38
92	29.29	3.33	0.432	2.66

93	22.96	3.93	0.433	3.58
94	21.32	3.95	0.426	2.29
95	16.55	2.82	0.402	2.74
96	34.65	2.54	0.430	2.53
97	25.92	2.21	0.512	2.30
98	22.53	2.83	0.443	2.84
99	18.98	3.96	0.443	2.84
100	19.47	2.65	0.435	2.53
101	15.05	3.32	0.368	2.60
102	20.72	2.45	0.459	2.95
103	15.74	3.04	0.388	2.86
104	24.58	3.94	0.447	2.79
105	41.99	2.85	0.465	3.04
106	24.90	1.81	0.490	3.19
107	22.11	2.50	0.430	2.68
108	23.81	3.33	0.375	2.71
109	17.49	3.95	0.423	3.48

Table S2. Physical properties of plantation Japanese larch for ring width.

Ring Width Class	Air-dry Density (g/cm ³)	CV (%)	Radial Air-dry Shrinkage (%)	CV (%)
W1	0.439	8.53	2.78	17.29
W 2	0.426	8.17	2.82	17.45
W 3	0.419	6.21	2.73	17.74
W 4	0.419	7.76	3.04	17.74
W 5	0.427	10.01	2.85	24.74

Table S3. Physical properties of plantation Japanese larch for latewood percentage.

Latewood Percentage Class	Air-dry Density (g/cm ³)	CV (%)	Radial Air-dry Shrinkage (%)	CV (%)
L1	0.405	8.47	2.87058	14.63
L2	0.419	6.62	2.83075	17.41
L3	0.425	7.21	2.80586	17.07
L4	0.436	8.20	2.77602	19.65
L5	0.441	5.68	2.74198	20.17

Table S4. The results of fits of physical properties of plantation Japanese larch to ring width (w) and latewood percentage (l).

Properties	Formula	R ²
Latewood Percentage	$y = 0.002d + 0.379$	0.97
	$y = -0.007s + 2.966$	0.99
	$y = 0.003s^2 - 0.028s + 0.480$	0.99

d: air-dry density (g/cm³); s: radial air-dry shrinkage (%).

Table S5. The modulus of elasticity of plantation Japanese larch for ring width and latewood percentage.

Specimen Number	Latewood Percentage (%)	Ring Width (mm)	The Modulus of Elasticity (MPa)
1	17.19	4.00	12.92
2	16.50	3.33	12.11
3	28.68	3.02	14.00
4	28.54	2.64	11.40
5	24.35	2.51	11.68
6	15.06	4.98	11.61
7	30.70	3.35	13.35
8	32.41	2.22	10.56
9	34.09	2.86	10.24
10	33.13	2.78	8.97
11	39.17	3.07	10.69
12	17.34	3.95	11.83
13	32.51	2.34	10.02
14	25.00	3.34	11.67
15	34.10	3.61	18.33
16	33.14	3.32	16.05
17	34.61	2.66	11.96
18	36.23	3.33	7.26
19	32.15	3.29	8.92
20	4.37	2.47	10.17
21	39.84	2.48	13.02
22	23.64	3.81	13.21
23	13.97	5.36	9.88
24	18.68	5.01	12.20
25	27.76	2.56	10.34
26	22.87	2.44	14.62
27	25.26	2.62	9.63
28	22.04	2.49	11.54
29	23.14	2.34	12.78
30	29.64	2.21	13.02
31	28.73	1.97	13.11
32	29.86	2.24	13.81
33	23.59	2.09	12.40
34	28.65	3.29	13.21
35	20.84	3.97	11.61
36	22.87	2.45	11.46
37	13.85	3.63	12.43
38	23.50	2.84	10.00

39	29.59	4.99	11.65
40	26.43	2.73	12.62
41	20.40	3.82	11.43
42	23.90	2.49	7.70
43	23.55	3.31	13.23
44	18.89	2.01	11.17
45	21.42	2.19	13.08
46	21.13	2.76	12.65
47	27.19	2.85	13.64
48	20.94	2.10	12.48
49	22.85	3.66	14.02
50	22.54	4.98	10.68
51	22.82	3.32	10.68
52	23.97	3.99	12.39
53	25.83	3.31	9.71
54	20.87	3.97	13.86
55	22.15	4.96	13.86
56	17.25	3.94	12.32
57	13.28	3.31	11.66
58	24.36	4.47	13.99
59	23.16	2.84	9.36
60	16.52	3.97	12.58
61	30.70	4.04	15.27
62	21.68	4.03	12.98
63	14.43	3.96	15.07
64	21.74	4.94	13.94
65	24.47	3.97	10.57
66	24.61	1.41	15.81
67	23.10	4.43	11.13
68	24.69	3.35	10.03
69	22.06	3.94	13.00
70	24.54	3.29	14.82
71	24.57	3.96	15.93
72	14.17	4.93	14.11
73	14.19	6.68	7.72
74	19.39	4.45	7.72
75	16.31	2.47	10.03
76	14.71	3.62	10.04
77	17.33	3.34	13.40
78	12.06	2.87	8.94
79	15.22	4.94	8.28
80	18.35	2.81	11.98
81	18.90	3.34	10.91

82	9.74	4.99	9.44
83	18.88	3.32	13.23
84	12.03	2.84	10.48
85	21.81	4.00	9.68
86	20.22	2.68	15.52
87	15.95	4.00	11.73
88	12.31	4.63	10.00
89	12.97	4.98	11.69
90	25.11	4.02	12.79
91	16.99	5.94	9.66
92	18.08	4.01	15.86
93	22.29	3.34	12.87
94	22.23	3.73	14.11
95	20.68	3.94	14.75
96	27.86	4.03	14.10
97	20.24	3.35	11.40
98	6.61	6.72	11.16
99	13.30	4.20	11.42
100	14.74	3.98	10.69
101	12.23	4.04	12.37
102	17.65	3.95	10.28
103	23.21	2.78	13.83
104	17.50	2.90	14.25
105	23.54	1.89	14.20
106	22.54	2.02	12.89
107	16.31	2.44	14.42
108	21.41	1.72	14.58
109	23.31	1.65	14.79
110	22.31	1.65	11.47
111	17.25	3.29	14.41
112	5.21	6.58	7.33
113	8.15	5.62	9.94
114	14.86	4.05	11.14
115	11.30	4.80	11.03
116	12.95	4.97	10.56
117	10.78	4.61	17.67
118	15.05	3.30	13.12
119	11.31	3.09	12.20
120	25.76	1.25	13.04
121	26.52	1.06	15.88
122	18.92	3.10	13.38
123	13.51	5.01	6.71
124	23.29	1.49	13.27

125	25.76	1.42	16.04
126	24.41	1.45	9.77
127	21.01	1.53	15.11
128	28.00	2.22	15.39
129	28.32	1.52	10.41
130	23.58	1.71	12.14
131	27.65	2.26	10.21
132	24.72	1.98	13.79
133	23.23	2.17	15.39
134	29.65	2.53	13.86
135	24.27	1.90	15.83
136	25.42	2.12	15.07
137	20.45	1.94	14.47
138	13.30	6.63	11.36
139	21.09	4.00	9.37
140	21.37	1.98	10.43
141	19.97	4.01	12.49
142	22.39	2.23	14.38
143	18.61	3.26	14.49
144	26.16	1.24	16.36
145	26.28	2.22	11.19
146	6.84	6.59	6.96
147	14.92	3.37	11.28
148	11.85	2.85	7.43
149	23.94	1.24	15.82
150	22.84	1.79	16.37
151	8.67	4.97	7.06
152	16.76	3.72	10.62
153	15.59	1.98	11.17
154	12.20	4.96	7.03
155	20.93	2.16	10.55
156	19.30	3.93	9.78
157	20.74	1.83	12.52
158	22.66	1.52	15.65
159	21.79	2.65	10.35
160	28.86	1.80	9.77
161	21.56	1.99	8.32
162	19.35	3.96	9.00
163	19.13	2.71	10.49
164	11.39	5.31	7.74
165	13.47	3.27	7.74
166	27.31	1.09	7.74
167	8.23	6.19	7.19

168	19.33	2.30	11.73
169	14.65	2.20	10.36
170	15.52	3.07	11.10
171	11.51	3.09	6.73
172	17.23	3.51	7.51
173	22.13	2.53	9.55
174	12.76	3.68	8.57
175	7.46	5.86	8.20
176	20.18	3.33	9.58
177	26.10	1.37	12.31
178	24.94	1.53	13.35
179	18.89	3.68	11.32
180	23.02	1.81	11.05
181	30.60	2.13	14.36
182	27.90	1.69	13.94
183	26.14	1.58	11.84
184	33.20	2.47	11.84
185	23.54	3.07	13.74
186	20.05	1.90	12.57
187	20.85	3.07	8.79
188	21.81	2.23	9.94
189	16.33	3.03	10.85
190	17.03	3.60	9.43
191	22.07	2.84	12.80
192	18.76	3.30	10.96
193	26.86	1.99	12.16
194	15.09	3.96	6.88
195	22.82	2.23	9.24
196	16.80	3.32	12.30

Table S6. The modulus of rupture of plantation Japanese larch for ring width and latewood percentage.

Specimen Number	Latewood Percentage (%)	Ring Width (mm)	The Modulus of Rupture (MPa)
1	17.19	4.00	80.04
2	16.50	3.33	93.13
3	28.68	3.02	95.86
4	28.54	2.64	75.52
5	17.34	3.95	81.81
6	32.51	2.34	82.97
7	25.00	3.34	98.35
8	33.14	3.32	99.63

9	34.61	2.66	89.38
10	32.15	3.29	91.95
11	4.37	2.47	88.12
12	39.84	2.48	96.70
13	23.64	3.81	71.91
14	13.97	5.36	73.82
15	18.68	5.01	77.66
16	27.76	2.56	92.17
17	22.87	2.44	99.89
18	25.26	2.62	82.80
19	22.04	2.49	91.61
20	23.59	2.09	93.59
21	23.50	2.84	84.38
22	29.59	4.99	85.46
23	26.43	2.73	74.34
24	20.40	3.82	78.11
25	23.90	2.49	38.47
26	21.13	2.76	92.78
27	27.19	2.85	91.96
28	20.94	2.10	88.96
29	23.97	3.99	84.01
30	25.83	3.31	70.02
31	20.87	3.97	79.44
32	22.15	4.96	79.44
33	17.25	3.94	83.08
34	13.28	3.31	78.34
35	30.70	4.04	99.71
36	21.74	4.94	97.76
37	24.61	1.41	95.78
38	23.10	4.43	82.96
39	22.06	3.94	97.98
40	24.54	3.29	91.85
41	16.31	2.47	74.26
42	17.33	3.34	88.98
43	12.06	2.87	67.62
44	20.22	2.68	102.24
45	12.31	4.63	64.30
46	12.97	4.98	84.89
47	25.11	4.02	95.16
48	16.99	5.94	71.17
49	18.08	4.01	104.03
50	20.24	3.35	77.15
51	6.61	6.72	80.37

52	13.30	4.20	65.11
53	14.74	3.98	80.67
54	12.23	4.04	80.41
55	17.50	2.90	105.94
56	23.54	1.89	86.86
57	21.41	1.72	89.78
58	23.31	1.65	101.39
59	17.25	3.29	98.78
60	5.21	6.58	48.57
61	8.15	5.62	64.58
62	14.86	4.05	73.60
63	11.30	4.80	74.91
64	12.95	4.97	71.45
65	10.78	4.61	189.01
66	15.05	3.30	77.87
67	11.31	3.09	75.97
68	24.41	1.45	93.27
69	21.01	1.53	106.88
70	23.58	1.71	110.99
71	24.27	1.90	107.76
72	25.42	2.12	115.92
73	20.45	1.94	96.09
74	21.09	4.00	72.22
75	21.37	1.98	90.44
76	22.39	2.23	104.60
77	18.61	3.26	104.91
78	26.16	1.24	117.16
79	6.84	6.59	64.12
80	11.85	2.85	65.27
81	22.84	1.79	110.69
82	8.67	4.97	60.14
83	16.76	3.72	86.69
84	12.20	4.96	65.76
85	20.93	2.16	74.29
86	19.30	3.93	91.87
87	19.13	2.71	76.51
88	11.39	5.31	64.69
89	13.47	3.27	64.69
90	27.31	1.09	64.69
91	19.33	2.30	82.71
92	14.65	2.20	76.33
93	15.52	3.07	74.81
94	12.76	3.68	63.49

95	7.46	5.86	53.51
96	20.18	3.33	83.16
97	24.94	1.53	83.81
98	30.60	2.13	96.93
99	26.14	1.58	87.85
100	33.20	2.47	87.85
101	20.05	1.90	90.96
102	20.85	3.07	66.17
103	21.81	2.23	78.22
104	16.33	3.03	70.20
105	22.82	2.23	80.44

Table S7. The ultimate tensile stress of plantation Japanese larch for ring width and latewood percentage.

Specimen Number	Latewood Percentage (%)	Ring Width (mm)	The Ultimate Tensile Stress (MPa)
1	20.97	3.34	92.15
2	17.64	4.01	86.63
3	11.53	3.93	144.32
4	21.48	4.98	115.21
5	23.41	2.22	101.78
6	18.01	2.74	87.65
7	22.12	3.27	89.83
8	28.17	2.20	76.92
9	23.34	4.01	96.02
10	21.65	1.98	49.17
11	16.64	3.95	99.22
12	25.18	2.14	157.77
13	20.15	3.07	123.76
14	18.70	2.53	137.73
15	18.44	3.16	71.95
16	9.23	4.96	106.40
17	10.22	4.01	86.01
18	26.51	2.47	128.09
19	23.05	2.44	150.45
20	19.55	2.46	84.67
21	17.98	3.32	140.73
22	23.32	1.81	138.41
23	23.44	2.49	134.53
24	25.11	3.29	115.75
25	18.81	3.02	103.86
26	21.95	2.85	130.41
27	22.47	3.61	91.99

28	24.47	3.31	91.99
29	15.46	2.21	97.51
30	19.92	2.51	104.79
31	20.98	2.52	120.96
32	16.53	1.81	73.16
33	19.23	3.35	109.32
34	24.42	3.98	118.57
35	12.26	3.99	103.67
36	16.78	4.96	40.41
37	15.20	3.97	117.43
38	18.83	3.94	119.93
39	11.26	3.98	106.09
40	19.91	4.03	86.40
41	13.30	3.32	95.09
42	21.78	3.97	104.87
43	13.09	4.04	66.10
44	19.53	3.96	64.59
45	24.12	4.94	58.94
46	25.46	3.29	157.56
47	28.24	3.95	126.57
48	21.39	3.97	104.25
49	27.59	4.93	80.66
50	23.32	4.99	161.14
51	23.23	4.93	118.45
52	22.40	3.29	153.33
53	19.04	3.96	88.13
54	23.08	3.29	82.96
55	21.58	2.91	60.70
56	18.59	2.84	38.74
57	23.53	2.35	88.63
58	20.76	2.87	83.10
59	23.21	3.29	97.30
60	19.32	3.28	66.18
61	15.07	4.00	85.99
62	24.15	3.02	149.98
63	18.67	3.32	71.14
64	22.01	2.84	83.48
65	17.80	3.34	102.98
66	23.36	4.02	130.13
67	26.43	4.36	143.21
68	19.62	3.04	104.73
69	22.58	3.36	91.96
70	24.18	3.29	82.12

71	5.93	6.72	171.24
72	15.81	6.73	74.63
73	21.91	2.82	143.69
74	22.56	2.14	149.23
75	8.75	6.54	105.94
76	18.30	3.61	98.58
77	16.73	4.82	94.13
78	23.16	1.76	120.07
79	15.72	1.72	74.19
80	16.25	1.72	117.47
81	18.38	1.89	142.78
82	8.63	3.93	74.86
83	14.13	2.08	87.15
84	20.45	1.47	94.66
85	30.65	1.70	173.46
86	10.26	5.28	117.28
87	17.22	2.20	154.30
88	23.55	1.52	154.30
89	26.84	1.42	104.19
90	31.51	2.20	126.34
91	25.97	1.99	160.17
92	14.48	4.95	88.70
93	33.67	2.24	194.02
94	29.81	2.89	107.43
95	21.47	4.94	134.76
96	28.56	2.51	102.18
97	18.72	3.67	61.01
98	18.88	2.84	144.27
99	11.75	3.31	81.77
100	19.46	2.00	130.47
101	12.21	3.95	78.27
102	11.97	2.98	60.23
103	26.81	1.66	85.04
104	19.54	1.74	113.40
105	24.28	1.66	150.20
106	13.15	5.97	65.02
107	20.49	1.80	139.74
108	14.98	1.24	116.59
109	21.27	1.77	122.49
110	23.49	3.03	79.70
111	20.41	3.31	79.38
112	20.20	2.39	67.13
113	21.75	3.60	67.13

114	18.90	2.68	71.19
115	17.02	2.87	71.19
116	21.10	2.18	51.26
117	21.27	2.80	51.26
118	15.24	2.83	99.34
119	13.50	2.77	64.60
120	13.18	3.97	92.27
121	12.78	5.69	72.12
122	15.87	3.35	79.60
123	19.13	2.85	97.82
124	20.93	1.81	99.20
125	25.49	1.80	131.56
126	35.78	1.66	145.86
127	13.45	3.32	59.66
128	16.05	3.30	115.90
129	19.15	3.31	73.39
130	24.08	2.09	127.65
131	13.44	3.98	86.13

Table S8. The impact bending strength of plantation Japanese larch for ring width and latewood percentage.

Specimen Number	Latewood Percentage (%)	Ring Width (mm)	The Impact Bending Strength (kJ/m ²)
1	24.35	2.51	39.95
2	15.06	4.98	36.64
3	30.70	3.35	41.94
4	32.41	2.22	54.24
5	39.17	3.07	30.25
6	23.14	2.34	46.61
7	29.64	2.21	65.94
8	28.73	1.97	54.23
9	29.86	2.24	64.03
10	28.65	3.29	53.80
11	20.84	3.97	44.28
12	22.87	2.45	46.42
13	13.85	3.63	48.31
14	23.55	3.31	52.03
15	18.89	2.01	38.36
16	21.42	2.19	39.15
17	22.85	3.66	57.55
18	22.54	4.98	34.53
19	22.82	3.32	34.53

20	24.36	4.47	48.91
21	23.16	2.84	29.00
22	16.52	3.97	63.01
23	21.68	4.03	44.45
24	14.43	3.96	117.61
25	24.47	3.97	38.49
26	24.69	3.35	34.65
27	24.57	3.96	134.71
28	14.17	4.93	26.82
29	14.19	6.68	81.14
30	19.39	4.45	81.14
31	14.71	3.62	41.31
32	15.22	4.94	22.60
33	18.90	3.34	37.35
34	9.74	4.99	22.21
35	12.03	2.84	34.38
36	21.81	4.00	28.31
37	15.95	4.00	29.44
38	22.29	3.34	42.42
39	22.23	3.73	71.13
40	20.68	3.94	55.50
41	27.86	4.03	69.55
42	17.65	3.95	42.40
43	23.21	2.78	64.74
44	22.54	2.02	54.51
45	16.31	2.44	41.19
46	22.31	1.65	42.38
47	25.76	1.25	59.46
48	26.52	1.06	70.89
49	13.51	5.01	28.82
50	23.29	1.49	56.23
51	25.76	1.42	74.48
52	28.00	2.22	43.42
53	28.32	1.52	59.01
54	27.65	2.26	35.01
55	24.72	1.98	83.44
56	23.23	2.17	62.74
57	29.65	2.53	59.92
58	13.30	6.63	35.66
59	19.97	4.01	50.63
60	26.28	2.22	46.68
61	14.92	3.37	43.05
62	23.94	1.24	71.71

63	15.59	1.98	59.35
64	20.74	1.83	70.95
65	22.66	1.52	94.10
66	21.79	2.65	33.43
67	28.86	1.80	34.87
68	21.56	1.99	28.64
69	19.35	3.96	32.67
70	8.23	6.19	21.67
71	11.51	3.09	20.57
72	17.23	3.51	21.67
73	22.13	2.53	34.34
74	26.10	1.37	61.99
75	23.02	1.81	42.53
76	27.90	1.69	74.72
77	23.54	3.07	46.96
78	17.03	3.60	31.44
79	22.07	2.84	51.02
80	18.76	3.30	54.58
81	26.86	1.99	52.25
82	15.09	3.96	27.22
83	16.80	3.32	57.87

Table S9. Anova table of growth ring parameter and physical and mechanical properties

	MOE	MOR	IBS	UTS
RW	***	**	n.s	**
LW percentage	***	**	n.s	***

where: n.s: $\alpha > 0.05$, *: $\alpha < 0.05$, **: $0.05 < \alpha < 0.01$, ***: $0.01 < \alpha < 0.001$.

Table S10. The results of linear fits of impact bending strength of plantation Japanese larch to ring width (w) and latewood percentage (l).

Properties	Linear fitting equation	R ²
IBS	$y = -2.08w + 54.90$	0.25
	$y = 0.66l + 34.73$	0.56