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**1**S

Fastenings

## Lag Screw Selection Tables Single Shear, Wood Side Plate

Factored lateral resistance

			Sawn I	umber				
1.07	Side		S-P-F			Northern		
Lag screw diamatar	nlato	,	P'r	Q′ <sup>3</sup>	Q′ 4 r	P′,	Q′ <sup>3</sup>	Q′ <sup>4</sup>
diameter in.	thickness mm	<sup>L</sup> p mm	kN	kN	kN	kN	kN	kN
1/4	38 38 38 38	32 38 44 51	0.659 0.862 1.04 1.18	0.489 0.618 0.758 0.908	0.427 0.543 0.634 0.724	0.549 0.718 0.905 1.03	0.408 0.515 0.631 0.756	0.379 0.481 0.561 0.641
	89 89 89 89 89	32 38 44 51	0.681 0.889 1.07 1.22	0.593 0.712 0.830 0.949	0.427 0.544 0.671 0.808	0.597 0.777 0.973 1.11	0.520 0.650 0.758 0.866	0.379 0.481 0.592 0.711
3/8	38 38 38 38	48 57 67 76	1.17 1.44 1.68 1.91	0.803 1.03 1.28 1.56	0.753 0.904 1.05 1.20	0.976 1.26 1.47 1.68	0.669 0.860 1.07 1.30	0.670 0.803 0.937 1.07
	89 89 89 89 89	48 57 67 76	1.33 1.62 1.90 2.17	1.05 1.26 1.48 1.69	0.810 1.04 1.29 1.57	1.16 1.48 1.73 1.98	0.962 1.15 1.35 1.54	0.717 0.917 1.14 1.37
1/2	38 38 38 38	64 76 89 102	1.79 2.22 2.59 2.96	1.15 1.50 1.89 2.31	1.21 1.45 1.70 1.94	1.49 1.96 2.29 2.62	0.962 1.25 1.57 1.93	1.08 1.30 1.52 1.73
	89 89 89 89	64 76 89 102	2.30 2.84 3.31 3.78	1.84 2.21 2.58 2.94	1.41 1.80 2.24 2.56	2.01 2.59 3.02 3.45	1.68 2.02 2.35 2.69	1.25 1.59 1.97 2.25
5/8	38 38 38 38	79 95 111 127	2.49 3.14 3.67 4.19	1.54 2.02 2.56 3.16	1.75 2.10 2.45 2.80	2.07 2.79 3.26 3.72	1.28 1.68 2.14 2.64	1.46 1.75 2.04 2.34
	89 89 89 89 89	79 95 111 127	3.50 4.35 5.08 5.80	2.62 3.32 3.95 4.52	2.14 2.68 3.13 3.57	2.97 3.87 4.52 5.16	2.18 2.77 3.40 4.08	1.90 2.37 2.76 3.16
3/4	38 38 38 38	95 114 133 152	3.26 4.19 4.89 5.59	1.94 2.58 3.29 4.08	2.02 2.43 2.83 3.24	2.72 3.73 4.36 4.98	1.62 2.15 2.74 3.40	1.69 2.02 2.36 2.70
	89 . 89 89 89 89	95 114 133 152	4.51 5.69 6.64 7.58	3.19 4.08 5.04 6.08	2.94 3.53 4.12 4.71	3.76 4.98 5.82 6.65	2.66 3.40 4.20 5.07	2,61 3.13 3,65 4,18

## Notes:

1.  $P_r = P'_r n_{Fe} n_R K'$   $Q_r = Q'_r n_{Fe} n_R K'$ 2. Tabulated values are valid for cases where the wood side member is of same density as main member.

3. Main member perpendicular and side member parallel to grain loading.

4. Side member perpendicular and main member parallel to grain loading.