

Commins Manufacturing Inc.
960B Guard Stret
Friday Harbor, WA 98250

Trimmer Stud Table-Hem-Fir (6" walls)

12/14/2004

Rev 1

| (Number) | Trimmer Size | Comp. Perp Grain | | Parallel to Grain, P _c Lbs (133) | | | | |
|----------|--------------|------------------|--------------|--|--------|--------|--------|--------|
| | | HF @ 405 psi | | 8' | 9' | 10' | 11' | 12' |
| | | Per Each | | Per Pair (Each Side of Rod) | | | | |
| 1 | 2 x 6 | 3,341 | 6,683 | 13,675 | 12,133 | 10,609 | 9,218 | 8,008 |
| 1 | 3 x 6 | 5,569 | 11,138 | 30,380 | 25,472 | 21,376 | 18,059 | 15,392 |
| 1 | 4 x 6 | 7,796 | 15,593 | 47,222 | 40,054 | 33,869 | 28,755 | 24,589 |
| 1 | 6 x 6 | 12,251 | 24,503 | 52,142 | 46,693 | 41,150 | 35,968 | 31,380 |
| 1 | 6 x 8 | 16,706 | 33,413 | 71,103 | 63,672 | 56,114 | 49,048 | 42,792 |
| 1 | 6 x 10 | 21,161 | 42,323 | 90,064 | 80,652 | 71,078 | 62,127 | 54,203 |
| 1 | 6 x 12 | 25,616 | 51,233 | 109,025 | 97,631 | 86,041 | 75,207 | 65,614 |
| 2 | 2 x 6 | 6,683 | 13,365 | 27,351 | 24,267 | 21,218 | 18,436 | 16,016 |
| 3 | 2 x 6 | 10,024 | 20,048 | 41,027 | 36,401 | 31,827 | 27,654 | 24,025 |
| 4 | 2 x 6 | 13,365 | 26,730 | 53,136 | 47,459 | 41,729 | 36,411 | 31,727 |
| 5 | 2 x 6 | 16,706 | 33,413 | 66,420 | 59,323 | 52,162 | 45,514 | 39,659 |
| 6 | 2 x 6 | 20,048 | 40,095 | 79,705 | 71,188 | 62,594 | 54,617 | 47,591 |
| 7 | 2 x 6 | 23,389 | 46,778 | 92,989 | 83,053 | 73,027 | 63,720 | 55,523 |
| | | | Normal Limit | Connection Limited by Parallel to Grain Load | | | | |

Trimmer Stud Table-Hem-Fir (4" walls)

12/14/2004

| (Number) | Trimmer Size | Comp. Perp Grain | | Parallel to Grain, P _c Lbs (133) | | | | |
|----------|--------------|------------------|--------------|--|--------|--------|--------|--------|
| | | HF @ 405 psi | | 8' | 9' | 10' | 11' | 12' |
| | | Per Each | | Per Pair (Each Side of Rod) | | | | |
| 1 | 2 x 4 | 2,126 | 4,253 | 4,849 | 3,928 | 3,226 | 2,689 | 2,270 |
| 1 | 3 x 4 | 3,938 | 7,875 | 9,308 | 7,405 | 6,016 | 4,977 | 4,182 |
| 1 | 4 x 4 | 4,961 | 9,923 | 14,893 | 11,880 | 9,668 | 8,007 | 6,733 |
| 1 | 4 x 6 | 7,796 | 15,593 | 23,298 | 18,609 | 15,156 | 12,559 | 10,565 |
| 1 | 4 x 8 | 10,631 | 21,263 | 30,557 | 24,443 | 19,926 | 16,521 | 13,904 |
| 1 | 4 x 10 | 13,466 | 26,933 | 38,768 | 31,062 | 25,347 | 21,030 | 17,707 |
| 1 | 4 x 12 | 16,301 | 32,603 | 47,150 | 37,779 | 30,827 | 25,577 | 21,535 |
| 2 | 2 x 4 | 4,253 | 8,505 | 9,699 | 7,856 | 6,453 | 5,378 | 4,541 |
| 3 | 2 x 4 | 6,379 | 12,758 | 14,549 | 11,785 | 9,680 | 8,067 | 6,812 |
| 4 | 2 x 4 | 8,505 | 17,010 | 19,399 | 15,713 | 12,907 | 10,756 | 9,083 |
| 5 | 2 x 4 | 10,631 | 21,263 | 24,249 | 19,642 | 16,134 | 13,445 | 11,353 |
| 6 | 2 x 4 | 12,758 | 25,515 | 29,099 | 23,570 | 19,361 | 16,134 | 13,624 |
| 7 | 2 x 4 | 14,884 | 29,768 | 33,949 | 27,499 | 22,588 | 18,823 | 15,895 |
| | | | Normal Limit | Connection Limited by Parallel to Grain Load | | | | |

"Normal Limit" is Wood Bearing Strength (typically Top and Bottom Plates

"Parallel to Grain" limited by wood bending.