

TRIMAX vs WOOD JOIST SPAN TABLE

Joist Spacing = 12 Inches On Center

UNIFORM LIVE LOAD IMMEDIATE DEFLECTION (SHORT-TERM) $\leq L / 360$

UNIFORM TOTAL LOAD IMMEDIATE DEFLECTION (SHORT-TERM) $\leq L / 240$

Trimax Basic Modulus Of Elasticity (73°F) = 325,000 psi

Trimax Basic Modulus Of Rupture (73°F) = 2,900 psi

Dead Load

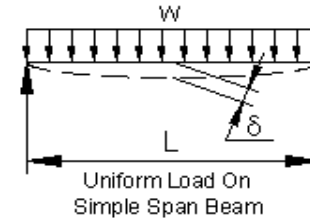
10 PSF

10.0 lb/ft

Southern Pine #2 Basic Modulus Of Elasticity = 1,600,000 psi

Temperature Adjustment Factors For Trimax Only

| Temperature | 73°F | 90°F | 100°F | 110°F | 120°F |
|---|-------|-------|-------|---------|-------|
| For Stress | 1.248 | 1.000 | 0.878 | 0.770 | 0.676 |
| For Deflection | 1.334 | 1.000 | 0.844 | 0.712 | 0.601 |
| Temperature Adjusted Modulus Of Elasticity (90°F) = | | | | 243,580 | psi |
| Temperature Adjusted Modulus Of Rupture (90°F) = | | | | 2,323 | psi |



| Material | Wood | Trimax | Wood | Trimax | Wood | Trimax | Wood | Trimax | Wood | Trimax | | |
|---------------------------|--------------------|---------------------|-------------------------------|--------|-------|--------|--------|--------|--------|--------|-----|-----|
| Nominal Size | 2 X 4 | 2 X 4 | 2 X 6 | 2 X 6 | 2 X 8 | 2 X 8 | 2 X 10 | 2 X 10 | 2 X 12 | 2 X 12 | | |
| Allw Bending Stress (psi) | 1500 | 929 | 1250 | 929 | 1200 | 929 | 1050 | 929 | 975 | 929 | | |
| Thickness (in) | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | | |
| Depth (in) | 3.5 | 3.5 | 5.5 | 5.5 | 7.25 | 7.25 | 9.25 | 9.25 | 11.25 | 11.25 | | |
| I (in ⁴) | 5.36 | 5.21 | 20.80 | 20.41 | 47.63 | 46.95 | 98.93 | 97.81 | 177.98 | 176.32 | | |
| S (in ⁴) | 3.06 | 2.98 | 7.56 | 7.42 | 13.14 | 12.95 | 21.39 | 21.15 | 31.64 | 31.35 | | |
| Uniform Live Load (psf) | Live Load Per Foot | Total Load Per Foot | Allowable Joist Span (Inches) | | | | | | | | | |
| 40 | 40.0 | 50.0 | 82 | 43 | 129 | 68 | 170 | 90 | 208 | 115 | 243 | 140 |
| 50 | 50.0 | 60.0 | 76 | 40 | 119 | 63 | 157 | 84 | 190 | 107 | 222 | 130 |
| 60 | 60.0 | 70.0 | 72 | 38 | 112 | 60 | 147 | 79 | 176 | 101 | 206 | 122 |
| 80 | 80.0 | 90.0 | 65 | 34 | 100 | 54 | 130 | 72 | 155 | 91 | 181 | 111 |
| 100 | 100.0 | 110.0 | 60 | 32 | 91 | 50 | 117 | 66 | 140 | 85 | 164 | 103 |

UNIFORM LOAD / TRIMAX VS WOOD JOISTS 12 "O.C.

10/17/03

Note: For lumber, all adjustment factors such as duration of load and repetitive member are taken as 1.0
 Note: Creep effects for dead load and a portion of the live load has not been considered in this chart, but will not likely control allowable spans.

TRIMAX vs WOOD JOIST SPAN TABLE

Joist Spacing = 16 Inches On Center

UNIFORM LIVE LOAD IMMEDIATE DEFLECTION (SHORT-TERM) $\leq L / 360$

UNIFORM TOTAL LOAD IMMEDIATE DEFLECTION (SHORT-TERM) $\leq L / 240$

Trimax Basic Modulus Of Elasticity (73°F) = 325,000 psi

Trimax Basic Modulus Of Rupture (73°F) = 2,900 psi

Dead Load

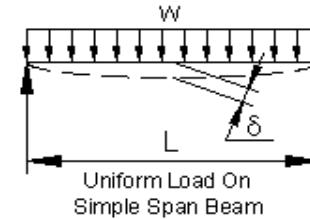
10 PSF

13.3 lb/ft

Southern Pine #2 Basic Modulus Of Elasticity = 1,600,000 psi

Temperature Adjustment Factors For Trimax Only

| Temperature | 73°F | 90°F | 100°F | 110°F | 120°F |
|---|-------|-------|-------|---------|-------|
| For Stress | 1.248 | 1.000 | 0.878 | 0.770 | 0.676 |
| For Deflection | 1.334 | 1.000 | 0.844 | 0.712 | 0.601 |
| Temperature Adjusted Modulus Of Elasticity (90°F) = | | | | 243,580 | psi |
| Temperature Adjusted Modulus Of Rupture (90°F) = | | | | 2,323 | psi |



| Material | Wood | Trimax | Wood | Trimax | Wood | Trimax | Wood | Trimax | Wood | Trimax | | |
|---------------------------|--------------------|---------------------|-------------------------------|--------|-------|--------|--------|--------|--------|--------|-----|-----|
| Nominal Size | 2 X 4 | 2 X 4 | 2 X 6 | 2 X 6 | 2 X 8 | 2 X 8 | 2 X 10 | 2 X 10 | 2 X 12 | 2 X 12 | | |
| Allw Bending Stress (psi) | 1500 | 929 | 1250 | 929 | 1200 | 929 | 1050 | 929 | 975 | 929 | | |
| Thickness (in) | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | | |
| Depth (in) | 3.5 | 3.5 | 5.5 | 5.5 | 7.25 | 7.25 | 9.25 | 9.25 | 11.25 | 11.25 | | |
| I (in^4) | 5.36 | 5.21 | 20.80 | 20.41 | 47.63 | 46.95 | 98.93 | 97.81 | 177.98 | 176.32 | | |
| S (in^4) | 3.06 | 2.98 | 7.56 | 7.42 | 13.14 | 12.95 | 21.39 | 21.15 | 31.64 | 31.35 | | |
| Uniform Live Load (psf) | Live Load Per Foot | Total Load Per Foot | Allowable Joist Span (Inches) | | | | | | | | | |
| 40 | 53.3 | 66.7 | 74 | 39 | 117 | 62 | 151 | 82 | 180 | 105 | 211 | 127 |
| 50 | 66.7 | 80.0 | 69 | 37 | 107 | 58 | 138 | 76 | 164 | 97 | 192 | 118 |
| 60 | 80.0 | 93.3 | 65 | 34 | 99 | 54 | 127 | 72 | 152 | 91 | 178 | 111 |
| 80 | 106.7 | 120.0 | 59 | 31 | 87 | 49 | 112 | 65 | 134 | 83 | 157 | 101 |
| 100 | 133.3 | 146.7 | 55 | 29 | 79 | 46 | 102 | 60 | 121 | 77 | 142 | 94 |

UNIFORM LOAD / TRIMAX VS WOOD JOISTS 16 "O.C.

10/17/03

Note: For lumber, all adjustment factors such as duration of load and repetitive member are taken as 1.0
 Note: Creep effects for dead load and a portion of the live load has not been considered in this chart, but will not likely control allowable spans.

TRIMAX vs WOOD JOIST SPAN TABLE

Joist Spacing = 19.2 Inches On Center

UNIFORM LIVE LOAD IMMEDIATE DEFLECTION (SHORT-TERM) $\leq L / 360$

UNIFORM TOTAL LOAD IMMEDIATE DEFLECTION (SHORT-TERM) $\leq L / 240$

Trimax Basic Modulus Of Elasticity (73°F) = 325,000 psi

Trimax Basic Modulus Of Rupture (73°F) = 2,900 psi

Dead Load

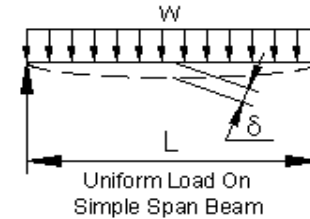
10 PSF

16.0 lb/ft

Southern Pine #2 Basic Modulus Of Elasticity = 1,600,000 psi

Temperature Adjustment Factors For Trimax Only

| Temperature | 73°F | 90°F | 100°F | 110°F | 120°F |
|---|-------|-------|-------|---------|-------|
| For Stress | 1.248 | 1.000 | 0.878 | 0.770 | 0.676 |
| For Deflection | 1.334 | 1.000 | 0.844 | 0.712 | 0.601 |
| Temperature Adjusted Modulus Of Elasticity (90°F) = | | | | 243,580 | psi |
| Temperature Adjusted Modulus Of Rupture (90°F) = | | | | 2,323 | psi |



| Material | Wood | Trimax | Wood | Trimax | Wood | Trimax | Wood | Trimax | Wood | Trimax | | |
|---------------------------|--------------------|---------------------|--------------------------------------|--------|-------|--------|--------|--------|--------|--------|-----|-----|
| Nominal Size | 2 X 4 | 2 X 4 | 2 X 6 | 2 X 6 | 2 X 8 | 2 X 8 | 2 X 10 | 2 X 10 | 2 X 12 | 2 X 12 | | |
| Allw Bending Stress (psi) | 1500 | 929 | 1250 | 929 | 1200 | 929 | 1050 | 929 | 975 | 929 | | |
| Thickness (in) | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | | |
| Depth (in) | 3.5 | 3.5 | 5.5 | 5.5 | 7.25 | 7.25 | 9.25 | 9.25 | 11.25 | 11.25 | | |
| I (in ⁴) | 5.36 | 5.21 | 20.80 | 20.41 | 47.63 | 46.95 | 98.93 | 97.81 | 177.98 | 176.32 | | |
| S (in ⁴) | 3.06 | 2.98 | 7.56 | 7.42 | 13.14 | 12.95 | 21.39 | 21.15 | 31.64 | 31.35 | | |
| Uniform Live Load (psf) | Live Load Per Foot | Total Load Per Foot | Allowable Joist Span (Inches) | | | | | | | | | |
| 40 | 64.0 | 80.0 | | | | | | | | | | |
| 50 | 80.0 | 96.0 | | | | | | | | | | |
| 60 | 96.0 | 112.0 | | | | | | | | | | |
| 80 | 128.0 | 144.0 | | | | | | | | | | |
| 100 | 160.0 | 176.0 | | | | | | | | | | |
| | | | 70 | 37 | 107 | 58 | 138 | 77 | 164 | 98 | 192 | 120 |
| | | | 65 | 34 | 97 | 54 | 126 | 72 | 150 | 91 | 176 | 111 |
| | | | 61 | 32 | 90 | 51 | 116 | 67 | 139 | 86 | 163 | 105 |
| | | | 55 | 29 | 79 | 46 | 103 | 61 | 122 | 78 | 143 | 95 |
| | | | 50 | 27 | 72 | 43 | 93 | 57 | 111 | 73 | 130 | 88 |

UNIFORM LOAD / TRIMAX VS WOOD JOISTS 19.2 "O.C.

10/17/03

Note: For lumber, all adjustment factors such as duration of load and repetitive member are taken as 1.0
 Note: Creep effects for dead load and a portion of the live load has not been considered in this chart, but will not likely control allowable spans.

TRIMAX vs WOOD JOIST SPAN TABLE

Joist Spacing = 24 Inches On Center

UNIFORM LIVE LOAD IMMEDIATE DEFLECTION (SHORT-TERM) $\leq L / 360$

UNIFORM TOTAL LOAD IMMEDIATE DEFLECTION (SHORT-TERM) $\leq L / 240$

Trimax Basic Modulus Of Elasticity (73°F) = 325,000 psi

Trimax Basic Modulus Of Rupture (73°F) = 2,900 psi

Dead Load

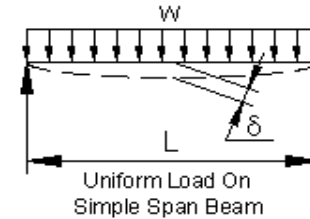
10 PSF

20.0 lb/ft

Southern Pine #2 Basic Modulus Of Elasticity = 1,600,000 psi

Temperature Adjustment Factors For Trimax Only

| Temperature | 73°F | 90°F | 100°F | 110°F | 120°F |
|---|-------|-------|-------|---------|-------|
| For Stress | 1.248 | 1.000 | 0.878 | 0.770 | 0.676 |
| For Deflection | 1.334 | 1.000 | 0.844 | 0.712 | 0.601 |
| Temperature Adjusted Modulus Of Elasticity (90°F) = | | | | 243,580 | psi |
| Temperature Adjusted Modulus Of Rupture (90°F) = | | | | 2,323 | psi |



| Material | Wood | Trimax | Wood | Trimax | Wood | Trimax | Wood | Trimax | Wood | Trimax | | |
|---------------------------|--------------------|---------------------|-------------------------------|--------|-------|--------|--------|--------|--------|--------|-----|-----|
| Nominal Size | 2 X 4 | 2 X 4 | 2 X 6 | 2 X 6 | 2 X 8 | 2 X 8 | 2 X 10 | 2 X 10 | 2 X 12 | 2 X 12 | | |
| Allw Bending Stress (psi) | 1500 | 929 | 1250 | 929 | 1200 | 929 | 1050 | 929 | 975 | 929 | | |
| Thickness (in) | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | | |
| Depth (in) | 3.5 | 3.5 | 5.5 | 5.5 | 7.25 | 7.25 | 9.25 | 9.25 | 11.25 | 11.25 | | |
| I (in ⁴) | 5.36 | 5.21 | 20.80 | 20.41 | 47.63 | 46.95 | 98.93 | 97.81 | 177.98 | 176.32 | | |
| S (in ⁴) | 3.06 | 2.98 | 7.56 | 7.42 | 13.14 | 12.95 | 21.39 | 21.15 | 31.64 | 31.35 | | |
| Uniform Live Load (psf) | Live Load Per Foot | Total Load Per Foot | Allowable Joist Span (Inches) | | | | | | | | | |
| 40 | 80.0 | 100.0 | 65 | 34 | 95 | 54 | 123 | 72 | 147 | 91 | 172 | 111 |
| 50 | 100.0 | 120.0 | 60 | 32 | 87 | 50 | 112 | 66 | 134 | 85 | 157 | 103 |
| 60 | 120.0 | 140.0 | 56 | 30 | 81 | 47 | 104 | 62 | 124 | 80 | 145 | 97 |
| 80 | 160.0 | 180.0 | 49 | 27 | 71 | 43 | 92 | 57 | 109 | 73 | 128 | 88 |
| 100 | 200.0 | 220.0 | 45 | 25 | 64 | 40 | 83 | 53 | 99 | 67 | 116 | 82 |

UNIFORM LOAD / TRIMAX VS WOOD JOISTS 24 "O.C.

10/17/03

Note: For lumber, all adjustment factors such as duration of load and repetitive member are taken as 1.0
 Note: Creep effects for dead load and a portion of the live load has not been considered in this chart, but will not likely control allowable spans.