



Beam Summary

STEEL BEAM DESIGN SUMMARY:

Floor Type: Second Floor

| Bm # | Length ft | +Mu kip-ft | -Mu kip-ft | Mn kip-ft | Fy ksi | Beam Size | Studs |
|------|--------------|---------------|---------------|--------------|-----------|-----------|---------|
| 1 | 10.50 | 36.8 | 0.0 | 65.7 | 50.0 | W8X10 | 4 |
| 2 | 24.00 | 43.8 | 0.0 | 99.1 | 50.0 | W10X12 | 8 |
| 3 | 24.00 | 82.8 | 0.0 | 135.9 | 50.0 | W12X14 | 10 |
| 6 | 24.00 | 82.8 | 0.0 | 135.9 | 50.0 | W12X14 | 10 |
| 7 | 24.00 | 82.8 | 0.0 | 135.9 | 50.0 | W12X14 | 10 |
| 8 | 24.00 | 82.8 | 0.0 | 135.9 | 50.0 | W12X14 | 10 |
| 11 | 24.00 | 82.8 | 0.0 | 135.9 | 50.0 | W12X14 | 10 |
| 12 | 24.00 | 82.8 | 0.0 | 135.9 | 50.0 | W12X14 | 10 |
| 13 | 24.00 | 82.8 | 0.0 | 135.9 | 50.0 | W12X14 | 10 |
| 16 | 24.00 | 82.8 | 0.0 | 135.9 | 50.0 | W12X14 | 10 |
| 17 | 24.00 | 82.8 | 0.0 | 135.9 | 50.0 | W12X14 | 10 |
| 18 | 24.00 | 82.8 | 0.0 | 135.9 | 50.0 | W12X14 | 10 |
| 21 | 24.00 | 82.8 | 0.0 | 135.9 | 50.0 | W12X14 | 10 |
| 22 | 24.00 | 82.8 | 0.0 | 135.9 | 50.0 | W12X14 | 10 |
| 23 | 24.00 | 82.8 | 0.0 | 135.9 | 50.0 | W12X14 | 10 |
| 24 | 21.00 | 147.8 | 0.0 | 211.8 | 50.0 | W14X22 u | 8 |
| 25 | 24.00 | 82.8 | 0.0 | 135.9 | 50.0 | W12X14 | 10 |
| 26 | 24.00 | 82.8 | 0.0 | 135.9 | 50.0 | W12X14 | 10 |
| 27 | 24.00 | 82.8 | 0.0 | 135.9 | 50.0 | W12X14 | 10 |
| 28 | 24.00 | 82.8 | 0.0 | 135.9 | 50.0 | W12X14 | 10 |
| 29 | 21.00 | 147.8 | 0.0 | 211.8 | 50.0 | W14X22 u | 8 |
| 30 | 24.00 | 82.8 | 0.0 | 135.9 | 50.0 | W12X14 | 10 |
| 31 | 24.00 | 82.8 | 0.0 | 135.9 | 50.0 | W12X14 | 10 |
| 32 | 24.00 | 82.8 | 0.0 | 135.9 | 50.0 | W12X14 | 10 |
| 33 | 24.00 | 82.8 | 0.0 | 135.9 | 50.0 | W12X14 | 10 |
| 36 | 24.00 | 82.8 | 0.0 | 135.9 | 50.0 | W12X14 | 10 |
| 37 | 24.00 | 82.8 | 0.0 | 135.9 | 50.0 | W12X14 | 10 |
| 38 | 24.00 | 82.8 | 0.0 | 135.9 | 50.0 | W12X14 | 10 |
| 41 | 24.00 | 82.8 | 0.0 | 135.9 | 50.0 | W12X14 | 10 |
| 42 | 24.00 | 82.8 | 0.0 | 135.9 | 50.0 | W12X14 | 10 |
| 43 | 24.00 | 82.8 | 0.0 | 135.9 | 50.0 | W12X14 | 10 |
| 44 | 23.25 | 181.6 | 0.0 | 282.7 | 50.0 | W16X26 | 10 |
| 46 | 24.00 | 91.7 | 0.0 | 137.7 | 50.0 | W12X16 | 8 |
| 47 | 24.00 | 91.7 | 0.0 | 137.7 | 50.0 | W12X16 | 8 |
| 48 | 24.00 | 91.7 | 0.0 | 137.7 | 50.0 | W12X16 | 8 |
| 49 | 13.04 | 50.7 | 0.0 | 98.4 | 50.0 | W10X12 | 3, 1, 3 |
| 50 | 24.00 | 80.1 | 0.0 | 125.7 | 50.0 | W12X14 | 8 |
| 51 | 24.00 | 68.7 | 0.0 | 125.6 | 50.0 | W12X14 | 8 |
| 52 | 24.00 | 68.7 | 0.0 | 125.6 | 50.0 | W12X14 | 8 |
| 53 | 24.00 | 36.8 | 0.0 | 98.9 | 50.0 | W10X12 | 8 |



Beam Summary

| Bm # | Length | +Mu | -Mu | Mn | Fy | Beam Size | Studs |
|-------------|---------------|------------|------------|-----------|-----------|------------------|--------------|
| 54 | 10.50 | 50.0 | 0.0 | 66.0 | 50.0 | W8X10 | 4 |
| 55 | 9.08 | 6.3 | 0.0 | 37.0 | 50.0 | W8X10 | |
| 56 | 9.08 | 11.8 | 0.0 | 37.0 | 50.0 | W8X10 | |
| 57 | 21.00 | 200.9 | 0.0 | 238.7 | 50.0 | W14X22 | 12 |
| 59 | 9.08 | 11.8 | 0.0 | 37.0 | 50.0 | W8X10 | |
| 60 | 9.08 | 11.8 | 0.0 | 37.0 | 50.0 | W8X10 | |
| 61 | 9.08 | 11.8 | 0.0 | 37.0 | 50.0 | W8X10 | |
| 62 | 21.00 | 200.9 | 0.0 | 238.7 | 50.0 | W14X22 | 12 |
| 64 | 9.08 | 11.8 | 0.0 | 37.0 | 50.0 | W8X10 | |
| 65 | 9.08 | 11.8 | 0.0 | 37.0 | 50.0 | W8X10 | |
| 66 | 9.08 | 11.8 | 0.0 | 37.0 | 50.0 | W8X10 | |
| 67 | 21.00 | 200.9 | 0.0 | 238.7 | 50.0 | W14X22 | 12 |
| 69 | 9.08 | 11.8 | 0.0 | 37.0 | 50.0 | W8X10 | |
| 70 | 9.08 | 11.8 | 0.0 | 37.0 | 50.0 | W8X10 | |
| 71 | 9.08 | 11.8 | 0.0 | 37.0 | 50.0 | W8X10 | |
| 72 | 21.00 | 200.9 | 0.0 | 238.7 | 50.0 | W14X22 | 12 |
| 74 | 9.08 | 11.8 | 0.0 | 37.0 | 50.0 | W8X10 | |
| 75 | 9.08 | 11.8 | 0.0 | 37.0 | 50.0 | W8X10 | |
| 76 | 9.08 | 11.8 | 0.0 | 37.0 | 50.0 | W8X10 | |
| 77 | 21.00 | 200.9 | 0.0 | 238.7 | 50.0 | W14X22 | 12 |
| 78 | 9.08 | 11.8 | 0.0 | 37.0 | 50.0 | W8X10 | |
| 79 | 9.08 | 11.8 | 0.0 | 37.0 | 50.0 | W8X10 | |
| 80 | 9.08 | 11.8 | 0.0 | 37.0 | 50.0 | W8X10 | |
| 81 | 9.08 | 11.8 | 0.0 | 37.0 | 50.0 | W8X10 | |
| 82 | 21.00 | 254.0 | 0.0 | 311.3 | 50.0 | W16X26 | 14 |
| 83 | 9.08 | 11.8 | 0.0 | 37.0 | 50.0 | W8X10 | |
| 84 | 23.08 | 45.6 | 0.0 | 125.7 | 50.0 | W12X14 | 11 |
| 85 | 23.08 | 45.6 | 0.0 | 125.7 | 50.0 | W12X14 | 11 |
| 86 | 23.08 | 45.6 | 0.0 | 125.7 | 50.0 | W12X14 | 11 |
| 87 | 21.00 | 254.0 | 0.0 | 311.3 | 50.0 | W16X26 | 14 |
| 89 | 23.08 | 45.6 | 0.0 | 125.7 | 50.0 | W12X14 | 11 |
| 90 | 23.08 | 45.6 | 0.0 | 125.7 | 50.0 | W12X14 | 11 |
| 91 | 23.08 | 45.6 | 0.0 | 125.7 | 50.0 | W12X14 | 11 |
| 92 | 21.00 | 254.0 | 0.0 | 311.3 | 50.0 | W16X26 | 14 |
| 94 | 23.08 | 45.6 | 0.0 | 125.7 | 50.0 | W12X14 | 11 |
| 95 | 23.08 | 45.6 | 0.0 | 125.7 | 50.0 | W12X14 | 11 |
| 96 | 23.08 | 45.6 | 0.0 | 125.7 | 50.0 | W12X14 | 11 |
| 97 | 10.50 | 40.2 | 0.0 | 65.7 | 50.0 | W8X10 | 2, 2 |
| 99 | 25.79 | 227.1 | 0.0 | 309.4 | 50.0 | W16X26 | 15 |
| 100 | 10.50 | 50.0 | 0.0 | 66.0 | 50.0 | W8X10 | 4 |
| 101 | 24.00 | 43.8 | 0.0 | 99.1 | 50.0 | W10X12 | 8 |
| 102 | 24.00 | 82.8 | 0.0 | 135.9 | 50.0 | W12X14 | 10 |
| 103 | 21.00 | 56.1 | 0.0 | 99.0 | 50.0 | W10X12 | 6 |
| 105 | 21.00 | 200.9 | 0.0 | 238.7 | 50.0 | W14X22 | 12 |
| 107 | 24.00 | 82.8 | 0.0 | 135.9 | 50.0 | W12X14 | 10 |



Beam Summary

| Bm # | Length | +Mu | -Mu | Mn | Fy | Beam Size | Studs |
|------|--------|-------|-----|-------|------|-----------|------------|
| 108 | 24.00 | 82.8 | 0.0 | 135.9 | 50.0 | W12X14 | 10 |
| 109 | 24.00 | 82.8 | 0.0 | 135.9 | 50.0 | W12X14 | 10 |
| 110 | 21.00 | 200.9 | 0.0 | 238.7 | 50.0 | W14X22 | 12 |
| 112 | 24.00 | 82.8 | 0.0 | 135.9 | 50.0 | W12X14 | 10 |
| 113 | 24.00 | 82.8 | 0.0 | 135.9 | 50.0 | W12X14 | 10 |
| 114 | 24.00 | 82.8 | 0.0 | 135.9 | 50.0 | W12X14 | 10 |
| 115 | 21.00 | 200.9 | 0.0 | 238.7 | 50.0 | W14X22 | 12 |
| 117 | 24.00 | 82.8 | 0.0 | 135.9 | 50.0 | W12X14 | 10 |
| 118 | 24.00 | 82.8 | 0.0 | 135.9 | 50.0 | W12X14 | 10 |
| 119 | 24.00 | 82.8 | 0.0 | 135.9 | 50.0 | W12X14 | 10 |
| 120 | 21.00 | 156.6 | 0.0 | 212.8 | 50.0 | W14X22 | 8 |
| 121 | 24.00 | 82.8 | 0.0 | 135.9 | 50.0 | W12X14 | 10 |
| 122 | 24.00 | 82.8 | 0.0 | 135.9 | 50.0 | W12X14 | 10 |
| 123 | 24.00 | 57.1 | 0.0 | 125.7 | 50.0 | W12X14 | 8 |
| 124 | 24.00 | 40.7 | 0.0 | 125.7 | 50.0 | W12X14 | 9 |
| 125 | 14.00 | 12.3 | 0.0 | 37.0 | 50.0 | W8X10 | |
| 126 | 8.50 | 13.8 | 0.0 | 65.3 | 50.0 | W8X10 | 4 |
| 127 | 13.75 | 22.0 | 0.0 | 37.0 | 50.0 | W8X10 | |
| 128 | 13.75 | 11.4 | 0.0 | 37.0 | 50.0 | W8X10 | |
| 129 | 21.00 | 72.2 | 0.0 | 171.8 | 50.0 | W12X19 | 8 |
| 130 | 10.00 | 5.6 | 0.0 | 37.0 | 50.0 | W8X10 | |
| 131 | 21.00 | 68.8 | 0.0 | 137.1 | 50.0 | W12X16 | 6 |
| 133 | 10.50 | 36.8 | 0.0 | 65.7 | 50.0 | W8X10 | 4 |
| 138 | 24.42 | 125.6 | 0.0 | 212.1 | 50.0 | W14X22 | 2, 2, 2, 3 |

Floor Type: First Floor

| Bm # | Length ft | +Mu kip-ft | -Mu kip-ft | Mn kip-ft | Fy ksi | Beam Size | Studs |
|------|--------------|---------------|---------------|--------------|-----------|-----------|-------|
| 1 | 10.50 | 44.3 | 0.0 | 66.0 | 50.0 | W8X10 | 4 |
| 2 | 24.00 | 56.2 | 0.0 | 125.5 | 50.0 | W12X14 | 8 |
| 3 | 24.00 | 98.0 | 0.0 | 148.3 | 50.0 | W12X16 | 10 |
| 6 | 24.00 | 98.0 | 0.0 | 148.3 | 50.0 | W12X16 | 10 |
| 7 | 24.00 | 98.0 | 0.0 | 148.3 | 50.0 | W12X16 | 10 |
| 8 | 24.00 | 98.0 | 0.0 | 148.3 | 50.0 | W12X16 | 10 |
| 11 | 24.00 | 98.0 | 0.0 | 148.3 | 50.0 | W12X16 | 10 |
| 12 | 24.00 | 98.0 | 0.0 | 148.3 | 50.0 | W12X16 | 10 |
| 13 | 24.00 | 98.0 | 0.0 | 148.3 | 50.0 | W12X16 | 10 |
| 16 | 24.00 | 98.0 | 0.0 | 148.3 | 50.0 | W12X16 | 10 |
| 17 | 24.00 | 98.0 | 0.0 | 148.3 | 50.0 | W12X16 | 10 |
| 18 | 24.00 | 98.0 | 0.0 | 148.3 | 50.0 | W12X16 | 10 |
| 21 | 24.00 | 98.0 | 0.0 | 148.3 | 50.0 | W12X16 | 10 |
| 22 | 24.00 | 98.0 | 0.0 | 148.3 | 50.0 | W12X16 | 10 |
| 23 | 24.00 | 98.0 | 0.0 | 148.3 | 50.0 | W12X16 | 10 |
| 24 | 24.00 | 56.2 | 0.0 | 125.5 | 50.0 | W12X14 | 8 |
| 25 | 10.50 | 56.7 | 0.0 | 76.5 | 50.0 | W8X10 | 6 |



Beam Summary

| Bm # | Length | +Mu | -Mu | Mn | Fy | Beam Size | Studs |
|------|--------|-------|-----|-------|------|-----------|-------|
| 26 | 9.08 | 6.9 | 0.0 | 37.0 | 50.0 | W8X10 | |
| 27 | 9.08 | 11.8 | 0.0 | 37.0 | 50.0 | W8X10 | |
| 28 | 21.00 | 227.9 | 0.0 | 284.0 | 50.0 | W16X26 | 10 |
| 30 | 9.08 | 11.8 | 0.0 | 37.0 | 50.0 | W8X10 | |
| 31 | 9.08 | 11.8 | 0.0 | 37.0 | 50.0 | W8X10 | |
| 32 | 9.08 | 11.8 | 0.0 | 37.0 | 50.0 | W8X10 | |
| 33 | 21.00 | 227.9 | 0.0 | 284.0 | 50.0 | W16X26 | 10 |
| 35 | 9.08 | 11.8 | 0.0 | 37.0 | 50.0 | W8X10 | |
| 36 | 9.08 | 11.8 | 0.0 | 37.0 | 50.0 | W8X10 | |
| 37 | 9.08 | 11.8 | 0.0 | 37.0 | 50.0 | W8X10 | |
| 38 | 21.00 | 227.9 | 0.0 | 284.0 | 50.0 | W16X26 | 10 |
| 40 | 9.08 | 11.8 | 0.0 | 37.0 | 50.0 | W8X10 | |
| 41 | 9.08 | 11.8 | 0.0 | 37.0 | 50.0 | W8X10 | |
| 42 | 9.08 | 11.8 | 0.0 | 37.0 | 50.0 | W8X10 | |
| 43 | 21.00 | 227.9 | 0.0 | 284.0 | 50.0 | W16X26 | 10 |
| 45 | 9.08 | 11.8 | 0.0 | 37.0 | 50.0 | W8X10 | |
| 46 | 9.08 | 11.8 | 0.0 | 37.0 | 50.0 | W8X10 | |
| 47 | 9.08 | 11.8 | 0.0 | 37.0 | 50.0 | W8X10 | |
| 48 | 9.08 | 6.9 | 0.0 | 37.0 | 50.0 | W8X10 | |
| 49 | 10.50 | 56.7 | 0.0 | 76.5 | 50.0 | W8X10 | 6 |
| 50 | 24.00 | 56.2 | 0.0 | 125.5 | 50.0 | W12X14 | 8 |
| 51 | 24.00 | 98.0 | 0.0 | 148.3 | 50.0 | W12X16 | 10 |
| 52 | 21.00 | 56.1 | 0.0 | 99.0 | 50.0 | W10X12 | 6 |
| 54 | 21.00 | 227.9 | 0.0 | 284.0 | 50.0 | W16X26 | 10 |
| 56 | 24.00 | 98.0 | 0.0 | 148.3 | 50.0 | W12X16 | 10 |
| 57 | 24.00 | 98.0 | 0.0 | 148.3 | 50.0 | W12X16 | 10 |
| 58 | 24.00 | 98.0 | 0.0 | 148.3 | 50.0 | W12X16 | 10 |
| 59 | 21.00 | 227.9 | 0.0 | 284.0 | 50.0 | W16X26 | 10 |
| 61 | 24.00 | 98.0 | 0.0 | 148.3 | 50.0 | W12X16 | 10 |
| 62 | 24.00 | 98.0 | 0.0 | 148.3 | 50.0 | W12X16 | 10 |
| 63 | 24.00 | 98.0 | 0.0 | 148.3 | 50.0 | W12X16 | 10 |
| 64 | 21.00 | 227.9 | 0.0 | 284.0 | 50.0 | W16X26 | 10 |
| 66 | 24.00 | 98.0 | 0.0 | 148.3 | 50.0 | W12X16 | 10 |
| 67 | 24.00 | 98.0 | 0.0 | 148.3 | 50.0 | W12X16 | 10 |
| 68 | 24.00 | 98.0 | 0.0 | 148.3 | 50.0 | W12X16 | 10 |
| 69 | 24.00 | 56.2 | 0.0 | 125.5 | 50.0 | W12X14 | 8 |
| 70 | 8.50 | 16.3 | 0.0 | 65.3 | 50.0 | W8X10 | 4 |
| 71 | 13.75 | 26.0 | 0.0 | 52.5 | 50.0 | W10X12 | |
| 72 | 13.75 | 13.5 | 0.0 | 37.0 | 50.0 | W8X10 | |
| 73 | 10.50 | 44.3 | 0.0 | 66.0 | 50.0 | W8X10 | 4 |

* after Size denotes beam failed stress/capacity criteria.

after Size denotes beam failed deflection criteria.

u after Size denotes this size has been assigned by the User.