

REFERENCE MATERIAL

CRIB JACK LOAD DATA

Use the pressure versus load data to determine the weight of a structure.



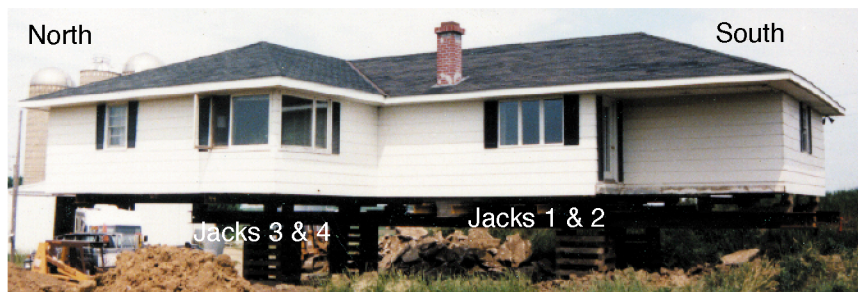
When you place a jack under a structure, and you apply pressure to the jack in order to raise the structure, you can determine how much the structure weighs by using the chart on this page. If you raise the structure with only 2 jacks and the pressure reads 2,000 psi then looking at the "2,000 psi" row and going over to the "Load 2 Jacks" column you see that your structure weighs just under 10 tons.

| Pressure (psi) | Load 1 Jack (lb) | Load 1 Jack (ton) | Load 2 Jacks (ton) | Load 4 Jacks (ton) | Load 6 Jacks (ton) |
|----------------|------------------|-------------------|--------------------|--------------------|--------------------|
| 250 | 1,227 | 0.61 | 1.23 | 2.45 | 3.68 |
| 500 | 2,455 | 1.23 | 2.45 | 4.91 | 7.36 |
| 750 | 3,682 | 1.84 | 3.68 | 7.36 | 11.05 |
| 1,000 | 4,909 | 2.45 | 4.91 | 9.82 | 14.73 |
| 1,250 | 6,136 | 3.07 | 6.14 | 12.27 | 18.41 |
| 1,500 | 7,363 | 3.68 | 7.36 | 14.73 | 22.09 |
| 1,750 | 8,590 | 4.30 | 8.59 | 17.18 | 25.77 |
| 2,000 | 9,818 | 4.91 | 9.82 | 19.64 | 29.45 |
| 2,250 | 11,045 | 5.52 | 11.04 | 22.09 | 33.13 |
| 2,500 | 12,272 | 6.14 | 12.27 | 24.54 | 36.82 |
| 2,750 | 13,499 | 6.75 | 13.50 | 27.00 | 40.50 |
| 3,000 | 14,726 | 7.36 | 14.73 | 29.45 | 44.18 |
| 3,250 | 15,953 | 7.98 | 15.95 | 31.91 | 47.86 |
| 3,500 | 17,181 | 8.59 | 17.18 | 34.36 | 51.54 |
| 3,750 | 18,408 | 9.20 | 18.41 | 36.82 | 55.22 |
| 4,000 | 19,635 | 9.82 | 19.64 | 39.27 | 58.90 |
| 4,250 | 20,862 | 10.43 | 20.86 | 41.72 | 62.59 |
| 4,500 | 22,089 | 11.04 | 22.09 | 44.18 | 66.27 |
| 4,750 | 23,317 | 11.66 | 23.32 | 46.63 | 69.95 |
| 5,000 | 24,544 | 12.27 | 24.54 | 49.09 | 73.63 |
| 5,250 | 25,771 | 12.89 | 25.77 | 51.54 | 77.31 |
| 5,500 | 26,998 | 13.50 | 27.00 | 54.00 | 80.99 |
| 5,750 | 28,225 | 14.11 | 28.23 | 56.45 | 84.68 |
| 6,000 | 29,452 | 14.73 | 29.45 | 58.90 | 88.36 |

Multiple Pressures

You can also determine the weight of the structure when you have different pressures on multiple jacks.

For example assume you have the structure loaded onto 4 jacks. 2 jacks are on the south end of the house tied together with pressure reading 1&2. The other two jacks are on the other heavier north end of the structure and they are tied together with a different pressure reading 3&4. What is the total weight of the structure?



| | | | | |
|------------------------|-----------|-----------------------|-----------|--|
| South End | | | | |
| Pressure Reading 1 & 2 | 4,500 psi | Load | 22.08 ton | |
| North End | | | | |
| Pressure Reading 3 & 4 | 6,000 psi | Load | 29.46 ton | |
| | | Total Structural Load | 51.54 ton | |