

**EQUAL SIDES TIMBER MEASURE.—CAST IRON.**

### SOLID CONTENTS OF EQUAL SIDES TIMBER.

If the Log is shorter than is contained in the Table, take half or quarter of some length, if longer double some length. The length of the Log is given on the top of the columns, the diameter in the left hand column. To obtain the Cubical Contents of Masts, Spars, Round Logs, &c., subtract one-fourth from the Contents.

| D. | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |    |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 6  | 2  | 3  | 2  | 6  | 2  | 9  | 8  | 0  | 4  | 0  | 4  | 9  | 5  |
| 7  | 3  | 0  | 3  | 4  | 4  | 7  | 4  | 1  | 4  | 5  | 6  | 6  | 10 |
| 8  | 4  | 1  | 4  | 4  | 10 | 5  | 4  | 6  | 8  | 5  | 8  | 9  | 8  |
| 9  | 5  | 2  | 5  | 9  | 6  | 2  | 6  | 9  | 7  | 11 | 10 | 11 | 6  |
| 10 | 6  | 2  | 6  | 10 | 7  | 8  | 8  | 4  | 9  | 0  | 9  | 8  | 9  |
| 11 | 7  | 6  | 3  | 4  | 9  | 3  | 10 | 1  | 10 | 11 | 11 | 12 | 7  |
| 12 | 9  | 0  | 4  | 0  | 11 | 0  | 12 | 0  | 13 | 0  | 14 | 0  | 15 |
| 13 | 0  | 4  | 11 | 7  | 12 | 10 | 14 | 1  | 15 | 8  | 16 | 1  | 17 |
| 14 | 12 | 2  | 18 | 7  | 14 | 11 | 16 | 4  | 17 | 9  | 18 | 9  | 19 |
| 15 | 4  | 2  | 15 | 9  | 17 | 2  | 13 | 9  | 20 | 4  | 21 | 0  | 22 |
| 16 | 6  | 0  | 12 | 10 | 19 | 6  | 23 | 4  | 22 | 1  | 24 | 7  | 25 |
| 17 | 18 | 0  | 20 | 0  | 23 | 0  | 24 | 1  | 26 | 1  | 28 | 2  | 29 |
| 18 | 3  | 0  | 23 | 6  | 24 | 9  | 27 | 0  | 29 | 3  | 31 | 6  | 32 |
| 19 | 23 | 6  | 25 | 0  | 27 | 6  | 30 | 1  | 32 | 7  | 35 | 1  | 36 |
| 20 | 35 | 0  | 37 | 10 | 30 | 10 | 33 | 4  | 36 | 1  | 39 | 10 | 40 |
| 21 | 37 | 7  | 30 | 8  | 33 | 9  | 36 | 9  | 39 | 10 | 42 | 6  | 43 |
| 22 | 30 | 2  | 33 | 6  | 36 | 10 | 40 | 4  | 43 | 8  | 46 | 8  | 47 |
| 23 | 33 | 0  | 36 | 8  | 40 | 4  | 44 | 1  | 47 | 9  | 51 | 1  | 52 |
| 24 | 36 | 0  | 40 | 0  | 44 | 0  | 48 | 0  | 51 | 0  | 55 | 0  | 58 |
| 25 | 39 | 0  | 43 | 4  | 48 | 1  | 52 | 5  | 56 | 0  | 60 | 4  | 63 |
| 26 | 42 | 2  | 46 | 11 | 51 | 7  | 56 | 4  | 61 | 0  | 65 | 0  | 68 |
| 27 | 45 | 7  | 50 | 8  | 55 | 9  | 60 | 9  | 66 | 10 | 71 | 6  | 74 |
| 28 | 49 | 0  | 54 | 5  | 59 | 10 | 65 | 4  | 70 | 9  | 76 | 2  | 79 |
| 29 | 52 | 6  | 58 | 4  | 64 | 2  | 70 | 1  | 75 | 11 | 81 | 11 | 84 |
| 30 | 55 | 9  | 62 | 0  | 68 | 3  | 75 | 0  | 81 | 8  | 87 | 8  | 90 |

## CAST IRON.

**WEIGHT OF A FOOT IN LENGTH OF FLAT CAST IRON.**

| Width of Iron. | Thick, 1-4th inch. | Thick, 3-5ths inch. | Thick, 1-2 inch. | Thick, 3-5ths inch. | Thick, 3-4ths inch. | Thick, 7-8ths inch. | Thick, 1 inch. |
|----------------|--------------------|---------------------|------------------|---------------------|---------------------|---------------------|----------------|
| Inches.        | Pounds.            | Pounds.             | Pounds.          | Pounds.             | Pounds.             | Pounds.             | Pounds.        |
| 2              | 1.56               | 2.34                | 3.12             | 3.90                | 4.68                | 5.46                | 6.25           |
| 2              | 1.75               | 2.63                | 3.51             | 4.39                | 5.27                | 6.15                | 7.03           |
| 2              | 1.95               | 2.92                | 3.90             | 4.88                | 5.85                | 6.83                | 7.81           |
| 2              | 2.14               | 3.22                | 4.29             | 5.37                | 6.44                | 7.51                | 8.59           |
| 3              | 2.34               | 3.51                | 4.68             | 5.85                | 7.03                | 8.20                | 9.37           |
| 3              | 2.53               | 3.80                | 5.07             | 6.34                | 7.61                | 8.88                | 10.15          |
| 3              | 2.73               | 4.10                | 5.45             | 6.83                | 8.20                | 9.57                | 10.93          |
| 3              | 2.93               | 4.39                | 5.85             | 7.32                | 8.78                | 10.25               | 11.71          |
| 4              | 3.12               | 4.68                | 6.25             | 7.81                | 9.37                | 10.93               | 12.50          |
| 4              | 3.32               | 4.97                | 6.64             | 8.30                | 9.96                | 11.63               | 13.28          |
| 4              | 3.51               | 5.27                | 7.03             | 8.78                | 10.54               | 12.30               | 14.06          |
| 4              | 3.71               | 5.56                | 7.42             | 9.27                | 11.13               | 12.98               | 14.84          |
| 5              | 3.90               | 5.85                | 7.81             | 9.76                | 11.71               | 13.67               | 15.62          |
| 5              | 4.10               | 6.15                | 8.20             | 10.25               | 12.30               | 14.35               | 16.40          |
| 5              | 4.29               | 6.44                | 8.59             | 10.74               | 12.89               | 15.03               | 17.18          |
| 5              | 4.49               | 6.73                | 8.98             | 11.23               | 13.48               | 15.72               | 17.96          |
| 6              | 4.68               | 7.03                | 9.37             | 11.71               | 14.06               | 16.40               | 18.75          |

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| W       |   |
|---------|---|
| Name    |   |
| Iron.   | 1 |
| Cop.    | 1 |
| Brass   | 1 |
|         |   |
| Iron.   | 2 |
| Cop.    | 3 |
| Brass   | 3 |
| No. 1   |   |
| No. 121 |   |
| No. 122 |   |