



232 SOUTH DILLARD STREET  
WINTER GARDEN, FL 34787

407-654-6133  
[www.gibbsreg.com](http://www.gibbsreg.com)

CREATI VITY  
FAM I LY  
R ESPECT  
IN T EGRITY  
Q U ALITY  
SAF E TY

### CONVERSIONS

|               |   |        |              |
|---------------|---|--------|--------------|
| 1 ACRE        | = | 4,840  | SQUARE YARDS |
| 1 ACRE        | = | 43,560 | SQUARE FEET  |
| 1 CUBIC FOOT  | = | 7.481  | GALLONS      |
| 1 CUBIC YARD  | = | 27     | CUBIC FEET   |
| 1 FOOT        | = | 12     | INCHES       |
| 1 GALLON      | = | 0.134  | CUBIC FEET   |
| 1 MILE        | = | 5,280  | FEET         |
| 1 SQUARE YARD | = | 9      | SQUARE FEET  |
| 1 TON         | = | 2,000  | POUNDS       |
| 1 YARD        | = | 3      | FEET         |
| 1 YARD        | = | 36     | INCHES       |

### ASPHALT OR LIMEROCK CALCS

110 LBS PER SQUARE YARD INCH

ROADWAY 24' WIDE X 100 LINEAL FEET (2,400 SF / 9 = 266.7 SY)

HOW MUCH ASPHALT IS NEEDED AT 2" THICKNESS?  
2 INCHES X 110 LBS X 266.7 SY = 58,674 LBS / 2,000 = 29.3 TONS

HOW MUCH LIMEROCK IS NEEDED AT 10" THICKNESS?  
10 INCHES X 110 LBS X 266.7 SY = 293,370 LBS / 2,000 = 146.7 TONS

### INCHES TO FEET

|     |   |       |
|-----|---|-------|
| 12" | = | 1.00' |
| 11" | = | 0.92' |
| 10" | = | 0.83' |
| 9"  | = | 0.75' |
| 8"  | = | 0.67' |
| 7"  | = | 0.58' |
| 6"  | = | 0.50' |
| 5"  | = | 0.42' |
| 4"  | = | 0.33' |
| 3"  | = | 0.25' |
| 2"  | = | 0.17' |
| 1"  | = | 0.08' |

### ABBREVIATIONS

|              |      |
|--------------|------|
| ACRE         | AC   |
| BANK YARDS   | CYBM |
| CUBIC FEET   | CF   |
| CUBIC YARD   | CY   |
| FEET         | FT   |
| INCHES       | IN   |
| POUNDS       | LBS  |
| SQUARE FEET  | SF   |
| SQUARE YARDS | SY   |
| TONS         | TN   |
| TRUCK YARDS  | CYTM |

### REBAR

| Size | lb/ft  | Diameter (in) |
|------|--------|---------------|
| #3   | 0.376  | 0.375         |
| #4   | 0.668  | 0.500         |
| #5   | 1.043  | 0.625         |
| #6   | 1.502  | 0.750         |
| #7   | 2.044  | 0.875         |
| #8   | 2.670  | 1.000         |
| #9   | 3.400  | 1.128         |
| #10  | 4.303  | 1.270         |
| #11  | 5.313  | 1.410         |
| #14  | 7.650  | 1.693         |
| #18  | 13.600 | 2.257         |



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### CONCRETE PAVING QUANTITIES (NO WASTE)

| THICKNESS | WIDTH | CY/LF   | CY NEEDED PER LINEAL FEET |       |        |        |        |        |        |
|-----------|-------|---------|---------------------------|-------|--------|--------|--------|--------|--------|
|           |       |         | 25 LF                     | 50 LF | 100 LF | 150 LF | 200 LF | 250 LF | 300 LF |
| 4"        | 5'    | 0.06173 | 1.5                       | 3.1   | 6.2    | 9.3    | 12.3   | 15.4   | 18.5   |
|           | 6'    | 0.07407 | 1.9                       | 3.7   | 7.4    | 11.1   | 14.8   | 18.5   | 22.2   |
|           | 8'    | 0.09877 | 2.5                       | 4.9   | 9.9    | 14.8   | 19.8   | 24.7   | 29.6   |
|           | 10'   | 0.12346 | 3.1                       | 6.2   | 12.3   | 18.5   | 24.7   | 30.9   | 37.0   |
|           | 12'   | 0.14815 | 3.7                       | 7.4   | 14.8   | 22.2   | 29.6   | 37.0   | 44.4   |

|    |     |         |     |      |      |      |      |      |      |
|----|-----|---------|-----|------|------|------|------|------|------|
| 6" | 5'  | 0.09259 | 2.3 | 4.6  | 9.3  | 13.9 | 18.5 | 23.1 | 27.8 |
|    | 6'  | 0.11111 | 2.8 | 5.6  | 11.1 | 16.7 | 22.2 | 27.8 | 33.3 |
|    | 8'  | 0.14815 | 3.7 | 7.4  | 14.8 | 22.2 | 29.6 | 37.0 | 44.4 |
|    | 10' | 0.18519 | 4.6 | 9.3  | 18.5 | 27.8 | 37.0 | 46.3 | 55.6 |
|    | 12' | 0.22222 | 5.6 | 11.1 | 22.2 | 33.3 | 44.4 | 55.6 | 66.7 |

|    |     |         |     |      |      |      |      |      |      |
|----|-----|---------|-----|------|------|------|------|------|------|
| 8" | 5'  | 0.12346 | 3.1 | 6.2  | 12.3 | 18.5 | 24.7 | 30.9 | 37.0 |
|    | 6'  | 0.14815 | 3.7 | 7.4  | 14.8 | 22.2 | 29.6 | 37.0 | 44.4 |
|    | 8'  | 0.19753 | 4.9 | 9.9  | 19.8 | 29.6 | 39.5 | 49.4 | 59.3 |
|    | 10' | 0.24691 | 6.2 | 12.3 | 24.7 | 37.0 | 49.4 | 61.7 | 74.1 |
|    | 12' | 0.29630 | 7.4 | 14.8 | 29.6 | 44.4 | 59.3 | 74.1 | 88.9 |

|     |     |         |     |      |      |      |      |      |       |
|-----|-----|---------|-----|------|------|------|------|------|-------|
| 10" | 5'  | 0.15432 | 3.9 | 7.7  | 15.4 | 23.1 | 30.9 | 38.6 | 46.3  |
|     | 6'  | 0.18519 | 4.6 | 9.3  | 18.5 | 27.8 | 37.0 | 46.3 | 55.6  |
|     | 8'  | 0.24691 | 6.2 | 12.3 | 24.7 | 37.0 | 49.4 | 61.7 | 74.1  |
|     | 10' | 0.30864 | 7.7 | 15.4 | 30.9 | 46.3 | 61.7 | 77.2 | 92.6  |
|     | 12' | 0.37037 | 9.3 | 18.5 | 37.0 | 55.6 | 74.1 | 92.6 | 111.1 |

TO CALCULATE CY OF CONCRETE NEEDED:

THICKNESS (INCHES) DIVIDED BY 12 TIMES WIDTH (FEET) TIMES LENGTH (FEET) DIVIDED BY 27

EXAMPLE: 4 INCHES CONCRETE WITH A 5 FOOT WIDTH AND A 300 FOOT LENGTH

$$4'' \times 5' \times 300' = 4 / 12 \times 5 \times 300 / 27 = 18.5 \text{ CY}$$

NO WASTE IS FACTORED IN



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| RCP       |              |                               |      |              |         |                     |
|-----------|--------------|-------------------------------|------|--------------|---------|---------------------|
| Size (IN) | lbs/8' Stick | Spoils Generated Per 8' Stick |      | OD Area (SF) | OD (IN) | Wall Thickness (IN) |
|           |              | CYBM                          | CYTM |              |         |                     |
| 12        | 960          | 0.4                           | 0.5  | 1.4          | 16      | 2                   |
| 15        | 1,240        | 0.6                           | 0.8  | 2.1          | 19.5    | 2.25                |
| 18        | 1,400        | 0.9                           | 1.1  | 2.9          | 23      | 2.5                 |
| 21        | 1,800        | 1.1                           | 1.5  | 3.8          | 26.5    | 2.75                |
| 24        | 2,320        | 1.5                           | 1.9  | 4.9          | 30      | 3                   |
| 30        | 3,280        | 2.2                           | 2.9  | 7.5          | 37      | 3.5                 |
| 36        | 4,504        | 3.1                           | 4.1  | 10.6         | 44      | 4                   |
| 42        | 5,960        | 4.2                           | 5.5  | 14.2         | 51      | 4.5                 |
| 48        | 7,360        | 5.4                           | 7.1  | 18.3         | 58      | 5                   |
| 54        | 9,000        | 6.8                           | 8.9  | 23.0         | 65      | 5.5                 |
| 60        | 10,720       | 8.4                           | 10.9 | 28.3         | 72      | 6                   |
| 66        | 12,640       | 10.1                          | 13.1 | 34.0         | 79      | 6.5                 |
| 72        | 14,720       | 11.9                          | 15.5 | 40.3         | 86      | 7                   |
| 78        | 16,880       | 14.0                          | 18.2 | 47.1         | 93      | 7.5                 |
| 84        | 19,280       | 16.2                          | 21.0 | 54.5         | 100     | 8                   |
| 90        | 21,920       | 18.5                          | 24.0 | 62.4         | 107     | 8.5                 |
| 96        | 24,760       | 21.0                          | 27.3 | 70.8         | 114     | 9                   |

10 STICKS OF 48" RCP WILL GENERATE HOW MANY LOADS OF HAUL OFF?

$$10 \text{ (STICKS)} \times 7.1 / 18 \text{ (YARDS PER TRUCK)} = 4 \text{ LOADS OF HAUL OFF}$$