

Concrete Cutting — some practical examples

The following table gives the average time and materials needed for some typical tasks involving burning concrete with a Thermic Lance:

| <i>Material</i> | <i>Task</i> | <i>Tube consumption</i> | <i>Oxygen consumption</i> | <i>Burning time</i> |
|---|---|-----------------------------|---|---------------------|
| Concrete wall 25 cm (10 in) thick | a hole 3.8 cm diameter ($1\frac{3}{8}$ in) | 1.1 m 3.6 ft | 425 ltr 15 ft ³ | 73 s |
| Reinforced concrete wall 25 cm (10 in) thick | cut in two wall 6 m (20 ft) high | 196 m 643 ft 49 tubes | 78 m ³ 2750 ft ³ | 3½ h |
| Reinforced concrete wall 33 cm (13 in) thick | a hole 4 cm diameter ($1\frac{3}{8}$ in) | 1.7 m 5.6 ft — | 520 ltr 18 ft ³ | 83 s |
| Reinforced concrete wall 40 cm (15 in) thick | a hole 4–5 cm diameter (approx. $1\frac{3}{4}$ in) | 2.2 m 7 ft — | 640 ltr 23 ft ³ | 100 s |
| Reinforced concrete wall 40 cm (15 in) thick | window 40 × 65 cm (approx. 15 × 25 in) | 72 m 236 ft 18 tubes | 20 m ³ 700 ft ³ | 54 min |
| Cast iron plate 8 cm ($3\frac{3}{8}$ in) thick | a hole 2–3 cm diameter (approx. 1 in) | 44 cm 1.45 ft | 101 ltr | 23 s |
| Concrete wall 30 cm (10 in) thick 12" | 150 holes 4 cm diameter ($1\frac{1}{2}$ in) for gas, electric and water conduits | 248 m 815 ft 62 tubes | 78 m ³ 2750 ft ³ | 4 h 2 men |
| Concrete wall 25 cm (10 in) thick | window 140 × 90 cm (approx. 55 × 36 in) | 98 m 321 ft 25 tubes | 31 m ³ 1150 ft ³ | 88 min |