

# stresslite

precast solutions  
for all levels of construction

## precast tanks

The **Stresslite Tank System** is a modular, post tensioned tank system. Prestressed elements are manufactured to suit diameters up to 40m and heights up to 7m. A permanent seal between units is achieved by patented joints incorporating a double barrier system. Tanks can be designed to accommodate any pipe work or equipment according to the customers requirements.

### Range of Applications:

- Reservoirs
- Attenuation water storage
- Sewage treatment
- Slow sand Filtration system



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### Advantages:

- Cost effective
- High quality manufacture
- Fast construction time
- Can be designed to suit any conditions
- Corrosion and maintenance free

### Markets:

- Group water schemes
- Processing Industry
- Local authorities
- Agricultural industry
- Mining industry



### reservoir guide

| CAPACITY (M3) | INTERNAL DIAMETER (M) | NO. OF ELEMENTS | TYPICAL LIQUID HEIGHT(M) |
|---------------|-----------------------|-----------------|--------------------------|
| 300           | 10.15                 | 16              | 3.7                      |
| 400           | 10.82                 | 17              | 4.7                      |
| 500           | 12.10                 | 19              | 4.7                      |
| 1000          | 16.55                 | 26              | 4.7                      |
| 2000          | 23.55                 | 37              | 4.7                      |
| 3000          | 28.64                 | 45              | 4.7                      |
| 4000          | 29.92                 | 47              | 5.7                      |
| 5000          | 33.10                 | 52              | 5.7                      |

### Quality:

#### The Stresslite Tank System

achieves its high quality by using:

- Computer aided design and production to BS8007.
- Factory production conditions
- Strict quality control systems and modern work practices to BS5896.

### attenuation tank guide

| LIQUID DEPTH | DIAMETERS (m) |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--------------|---------------|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|              | 6.2           | 6.8 | 7.5 | 8.1 | 8.7 | 9.4 | 10.0 | 10.7 | 11.3 | 11.9 | 12.6 | 13.2 | 13.8 | 14.5 | 15.1 | 15.8 | 16.4 | 17.0 | 17.7 | 18.3 | 18.9 | 19.6 | 20.2 | 20.8 | 21.5 | 22.1 | 22.7 | 23.4 | 24.0 | 24.7 | 25.3 |
|              | VOLUME (m³)   |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 1m           | 30            | 35  | 45  | 50  | 60  | 70  | 80   | 90   | 100  | 110  | 125  | 140  | 150  | 165  | 180  | 195  | 210  | 230  | 245  | 265  | 280  | 300  | 320  | 340  | 360  | 385  | 405  | 430  | 450  | 480  | 500  |
| 1.5m         | 45            | 55  | 65  | 75  | 90  | 105 | 120  | 135  | 150  | 170  | 190  | 205  | 225  | 250  | 270  | 290  | 320  | 340  | 370  | 395  | 420  | 450  | 480  | 510  | 545  | 575  | 610  | 645  | 680  | 725  | 750  |
| 2m           | 60            | 75  | 90  | 105 | 120 | 140 | 160  | 180  | 200  | 225  | 250  | 275  | 300  | 330  | 360  | 390  | 420  | 455  | 490  | 525  | 560  | 600  | 640  | 680  | 725  | 770  | 810  | 860  | 910  | 955  | 1005 |
| 2.5m         | 75            | 90  | 110 | 130 | 150 | 175 | 200  | 225  | 250  | 280  | 310  | 340  | 375  | 410  | 450  | 490  | 525  | 570  | 610  | 660  | 705  | 750  | 800  | 850  | 900  | 960  | 1015 | 1075 | 1135 | 1200 | 1260 |
| 3m           | 90            | 110 | 130 | 155 | 180 | 210 | 240  | 270  | 300  | 335  | 370  | 410  | 450  | 495  | 540  | 585  | 630  | 680  | 735  | 790  | 845  | 900  | 960  | 1020 | 1090 | 1150 | 1220 | 1290 | 1360 | 1430 | 1510 |
| 3.5m         | 105           | 130 | 155 | 180 | 210 | 240 | 275  | 310  | 350  | 390  | 435  | 480  | 525  | 575  | 630  | 680  | 740  | 795  | 870  | 920  | 985  | 1050 | 1120 | 1195 | 1270 | 1350 | 1420 | 1500 | 1585 | 1670 | 1760 |

IMPORTANT: This table is only a guide and should be checked against consultant engineer's requirements



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