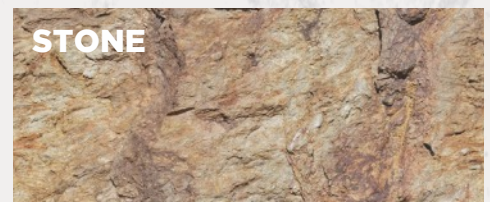
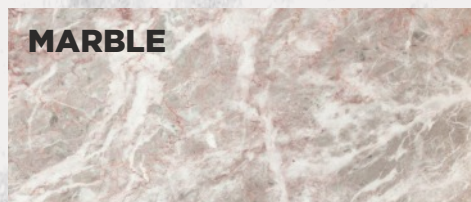
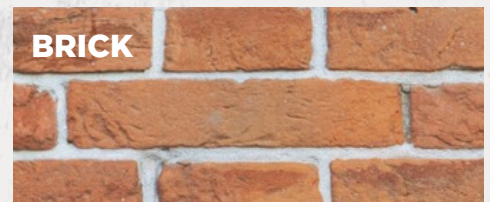




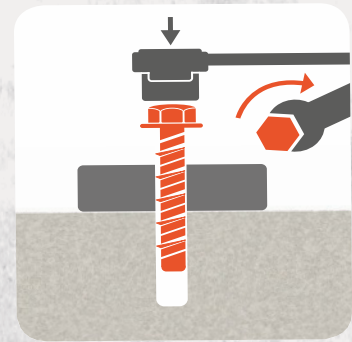
Key Features

- Manufactured from high tensile boron steel
- Fast, simple installation with an instant fix
- Fully removable
- High loads with low expansion forces
- Suitable for close to edge fixing
- 10 sharp thread forming teeth
- Dual thread ensures correct alignment
- Suitable for a wide range of substrates
- Tensile strength of 800N/mm² after heat treatment

Substrate Suitability



Simple Installation



The Range

| Product Code | Size (mm) | Box Quantity | Head Type | Head Size (mm) | Drill Size (mm) | Max Fixture Thickness (mm) |
|--------------|-----------|--------------|-------------|----------------|-----------------|----------------------------|
| XAB650CSK | 6 x 50 | 100 | Countersunk | T - 30 Bit | 6 | 20 |
| XAB675CSK | 6 x 75 | 100 | Countersunk | T - 30 Bit | 6 | 45 |
| XAB6100CSK | 6 x 100 | 100 | Countersunk | T - 30 Bit | 6 | 55 |
| XAB6130CSK | 6 x 130 | 100 | Countersunk | T - 30 Bit | 6 | 85 |
| XAB6150CSK | 6 x 150 | 100 | Countersunk | T - 30 Bit | 6 | 105 |
| XAB650FHEX | 6 x 50 | 100 | Hex Flange | 10 | 6 | 20 |
| XAB675FHEX | 6 x 75 | 100 | Hex Flange | 10 | 6 | 45 |
| XAB6100FHEX | 6 x 100 | 100 | Hex Flange | 10 | 6 | 55 |
| XAB6150FHEX | 6 x 150 | 100 | Hex Flange | 10 | 6 | 105 |
| XAB860HEX | 8 x 60 | 100 | Hex | 13 | 8 | 20 |
| XAB875HEX | 8 x 75 | 100 | Hex | 13 | 8 | 35 |
| XAB8100HEX | 8 x 100 | 100 | Hex | 13 | 8 | 60 |
| XAB8130HEX | 8 x 130 | 50 | Hex | 13 | 8 | 90 |
| XAB8150HEX | 8 x 150 | 50 | Hex | 13 | 8 | 110 |
| XAB1060HEX | 10 x 60 | 50 | Hex | 17 | 10 | 10 |
| XAB1075HEX | 10 x 75 | 50 | Hex | 17 | 10 | 25 |
| XAB10100HEX | 10 x 100 | 50 | Hex | 17 | 10 | 50 |
| XAB10130HEX | 10 x 130 | 25 | Hex | 17 | 10 | 80 |
| XAB10150HEX | 10 x 150 | 25 | Hex | 17 | 10 | 100 |
| XAB1275HEX | 12 x 75 | 25 | Hex | 19 | 12 | 15 |
| XAB12100HEX | 12 x 100 | 50 | Hex | 19 | 12 | 40 |
| XAB12130HEX | 12 x 130 | 25 | Hex | 19 | 12 | 70 |
| XAB12150HEX | 12 x 150 | 20 | Hex | 19 | 12 | 90 |
| XAB12200HEX | 12 x 200 | 20 | Hex | 19 | 12 | 140 |

Installation Data

| Anchor Size (mm) | 6 x 50 | 6 x 75 | 6 x 100 | 6 x 130 | 6 x 150 | 8 x 60 | 8 x 75 | 8 x 100 | 8 x 130 | 8 x 150 | 10 x 60 | 10 x 75 | 10 x 100 | 10 x 130 | 10 x 150 | 12 x 75 | 12 x 100 | 12 x 130 | 12 x 150 | 12 x 200 |
|------------------------------|--|--------|---------|---------|---------|--------|--------|---------|---------|---------|---------|---------|----------|----------|----------|---------|----------|----------|----------|----------|
| Head Size (mm) | 10 | | | | | 13 | | | | | 17 | | | | | 19 | | | | |
| Drill Size (mm) | 6 | | | | | 8 | | | | | 10 | | | | | 12 | | | | |
| Min Embedment Depth (mm) | 30 | | 45 | | | 40 | | | | | 50 | | | | | 60 | | | | |
| Max Fixture Thickness (mm) | 20 | 45 | 55 | 85 | 105 | 20 | 35 | 60 | 90 | 110 | 10 | 25 | 50 | 80 | 100 | 15 | 40 | 70 | 90 | 140 |
| Fixture Clearance Hole (mm) | 8 | | | | | 10 | | | | | 12 | | | | | 14 | | | | |
| Min Over Drill Depth (mm) | 10 | | | | | 15 | | | | | 20 | | | | | 25 | | | | |
| Drill Hole Depth (mm) | Length of Anchor - Actual Fixture Thickness + Over Drill Depth | | | | | | | | | | | | | | | | | | | |
| Max Installation Torque (Nm) | 25 | | | | | 40 | | | | | 60 | | | | | 80 | | | | |
| Countersunk Torx Bit | T-30 | | | | | N/A | | | | | | | | | | | | | | |

Performance Data in Concrete

| Anchor Size (mm) | Drill Diameter (mm) | Anchor Effective Depth (mm) | Design Load Capacity (kN) in 20MPa Concrete | |
|------------------|---------------------|-----------------------------|---|-------|
| | | | Tension | Shear |
| 6 | 6 | 30 | 3.7 | 3.5 |
| | | 45 | 5.9 | |
| 8 | 8 | 40 | 5.5 | 6.2 |
| | | 60 | 9.3 | |
| 10 | 10 | 50 | 7.9 | 10.3 |
| | | 75 | 13.9 | |
| 12 | 12 | 60 | 11.2 | 15.1 |
| | | 90 | 20.3 | |

Anchor Effective Depth = Anchor Length - Fixture Thickness

Spacing & Edge Distance

To achieve the published tension and shear loads, Atlas Bolts should be installed at least 10x the anchor diameter between each bolt and 10x the anchor diameter from the edge of the base material.

If spacing or edge distance is reduced users should apply the appropriate reduction multiplier to the published load to ascertain the correct load.

Spacing Table for Atlas Bolts

| Anchor Spacing (Diameters) | Anchor Size (mm) | | | | Reduction Multiplier |
|----------------------------|---------------------|----|-----|-----|----------------------|
| | 6 | 8 | 10 | 12 | |
| | Anchor Spacing (mm) | | | | |
| 5d | 30 | 40 | 50 | 60 | 0.5 |
| 6d | 36 | 48 | 60 | 72 | 0.6 |
| 7d | 42 | 56 | 70 | 84 | 0.7 |
| 8d | 48 | 64 | 80 | 96 | 0.8 |
| 9d | 54 | 72 | 90 | 108 | 0.9 |
| 10d | 60 | 80 | 100 | 120 | 1 |

Edge Table for Atlas Bolts - Tension load

| Anchor Spacing (Diameters) | Anchor Size (mm) | | | | Reduction Multiplier |
|-------------------------------|---------------------|----|-----|-----|-------------------------|
| | 6 | 8 | 10 | 12 | |
| | Anchor Spacing (mm) | | | | |
| 3d | 18 | 24 | 30 | 36 | 0.72 |
| 4d | 24 | 32 | 40 | 48 | 0.76 |
| 5d | 30 | 40 | 50 | 60 | 0.8 |
| 6d | 36 | 48 | 60 | 72 | 0.84 |
| 7d | 42 | 56 | 70 | 84 | 0.88 |
| 8d | 48 | 64 | 80 | 96 | 0.92 |
| 9d | 54 | 72 | 90 | 108 | 0.96 |
| 10d | 60 | 80 | 100 | 120 | 1 |

Edge Table for Atlas Bolts - Shear load

| Anchor Spacing (Diameters) | Anchor Size (mm) | | | | Reduction Multiplier |
|-------------------------------|---------------------|----|-----|-----|-------------------------|
| | 6 | 8 | 10 | 12 | |
| | Anchor Spacing (mm) | | | | |
| 3d | 18 | 24 | 30 | 36 | 0.16 |
| 4d | 24 | 32 | 40 | 48 | 0.28 |
| 5d | 30 | 40 | 50 | 60 | 0.4 |
| 6d | 36 | 48 | 60 | 72 | 0.52 |
| 7d | 42 | 56 | 70 | 84 | 0.64 |
| 8d | 48 | 64 | 80 | 96 | 0.76 |
| 9d | 54 | 72 | 90 | 108 | 0.88 |
| 10d | 60 | 80 | 100 | 120 | 1 |

