

# BSZ-SU Concrete Screw



## CERTIFICATIONS



## FEATURES

Fire resistance class R30-R120 for design of anchorages under exposure to fire

ETA assessed for anchoring in cracked and non-cracked concrete

Approved for use in seismic design category C1 (all sizes)

Approved for use in seismic design category C2 (for Drill Bit Diameters 8 mm and greater)

Removable anchor is ideal for temporary fixings

Atlantis finish has superior corrosion protection (up to C3 environment according to EN ISO 9223 & 9224)

Atlantis finish is suitable for outdoor installation

## SPECIFICATIONS

**Material:** Steel

Table 1/2

| Catalog Number | Article Number | Finish   | Drill Bit Diameter | Screw Length (L) | Embedment Depth |
|----------------|----------------|----------|--------------------|------------------|-----------------|
| BSZSU06040ZL   | 402605         | Atlantis | 6mm                | 40mm             | 35 mm           |

| Catalog Number | Article Number | Finish            | Drill Bit Diameter | Screw Length (L) | Embedment Depth |
|----------------|----------------|-------------------|--------------------|------------------|-----------------|
| BSZSU08070ZL   | 402610         | Atlantis          | 8mm                | 70mm             | 65 mm           |
| BSZSU12110ZL   | 402625         | Atlantis          | 12mm               | 110mm            | 105 mm          |
| BSZSU06040EG   | 402635         | Electrogalvanized | 6mm                | 40mm             | 35 mm           |
| BSZSU08070EG   | 402645         | Electrogalvanized | 8mm                | 70mm             | 65 mm           |
| BSZSU12110EG   | 402663         | Electrogalvanized | 12mm               | 110mm            | 105 mm          |
| BSZSU06050ZL   | 402606         | Atlantis          | 6mm                | 50mm             | 35 mm           |
| BSZSU10100ZL   | 402615         | Atlantis          | 10mm               | 100mm            | 85 mm           |
| BSZSU06050EG   | 402640         | Electrogalvanized | 6mm                | 50mm             | 35 mm           |
| BSZSU10100EG   | 402650         | Electrogalvanized | 10mm               | 100mm            | 85 mm           |
| BSZSU10120ZL   | 402620         | Atlantis          | 10mm               | 120mm            | 85 mm           |
| BSZSU10120EG   | 402658         | Electrogalvanized | 10mm               | 120mm            | 85 mm           |

Table 2/2

| Catalog Number | Article Number | A    | Torque (TQ) | Certifications           |
|----------------|----------------|------|-------------|--------------------------|
| BSZSU06040ZL   | 402605         | 5 mm | 10 N·m      | CE, 20-0494, CE, 20-0046 |
| BSZSU08070ZL   | 402610         | 5 mm | 20 N·m      | CE, 20-0046, VdS         |
| BSZSU12110ZL   | 402625         | 5 mm |             | CE, 20-0046, VdS         |
| BSZSU06040EG   | 402635         | 5 mm | 10 N·m      | CE, 20-0046, CE, 20-0494 |
| BSZSU08070EG   | 402645         | 5 mm | 20 N·m      | CE, 20-0046, VdS         |
| BSZSU12110EG   | 402663         | 5 mm |             | CE, 20-0046, VdS         |

| Catalog Number | Article Number | A     | Torque (TQ) | Certifications           |
|----------------|----------------|-------|-------------|--------------------------|
| BSZSU06050ZL   | 402606         | 15 mm | 10 N·m      | CE, 20-0494, CE, 20-0046 |
| BSZSU10100ZL   | 402615         | 15 mm | 30 N·m      | CE, 20-0046, VdS         |
| BSZSU06050EG   | 402640         | 15 mm | 10 N·m      | CE, 20-0046, CE, 20-0494 |
| BSZSU10100EG   | 402650         | 15 mm | 30 N·m      | CE, 20-0046, VdS         |
| BSZSU10120ZL   | 402620         | 35 mm | 30 N·m      | CE, 20-0046, VdS         |
| BSZSU10120EG   | 402658         | 35 mm | 30 N·m      | CE, 20-0046, VdS         |

| Characteristic Axial Loads from ETA-20/0046 |                         |                             |                          |
|---------------------------------------------|-------------------------|-----------------------------|--------------------------|
| Part Number                                 | Cracked Concrete C20/25 | Non-Cracked Concrete C20/25 | Standard Embedment Depth |
| BSZSU06040xx                                | 1.81 kN                 | 1.98 kN                     | 35 mm                    |
| BSZSU06050xx                                | 1.81 kN                 | 1.98 kN                     | 35 mm                    |
| BSZSU08070xx                                | 5.88 kN                 | 8.41 kN                     | 65 mm                    |
| BSZSU10100xx                                | 8.99 kN                 | 12.85 kN                    | 85 mm                    |
| BSZSU10120xx                                | 8.99 kN                 | 12.85 kN                    | 85 mm                    |
| BSZSU12110xx                                | 12.51 kN                | 17.87 kN                    | 105 mm                   |

## DIAGRAMS



## WARNING

nVent products shall be installed and used only as indicated in nVent's product instruction sheets and training materials. Instruction sheets are available at [www.nvent.com](http://www.nvent.com) and from your nVent customer service representative. Improper installation, misuse, misapplication or other failure to completely follow nVent's instructions and warnings may cause product malfunction, property damage, serious bodily injury and death and/or void your warranty.

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+1.800.753.9221

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#### Europe

Netherlands:

+31 800-0200135

France:

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#### Europe

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