

Dynamic™ Solid Bolt

Patent No. 2002331421
Test reports available



PRODUCT DESCRIPTION A solid bolt that has a mechanism that allows it to absorb seismic events and remain intact. The solid bolt can be installed in both resin and cement grouts.

FIELD OF APPLICATION The Dynamic Solid Bolt can be installed in areas where seismic activity is expected.

TECHNICAL SPECIFICATIONS

MECHANICAL PROPERTIES

	Minimum	Typical
Core Diameter - Bar (mm)	21.45	21.7
Cross Sectional Area - Bar (mm ²)	361	370
Yield Strength (MPa)	550	580
Yield Force (kN)	199	215
Tensile Strength (MPa)	850	915
Tensile Force (kN)	307	339
Elongation (%)	12	16
Mass per metre - Bar (kg/m)	3.0	-

DYNAMIC PROPERTIES

Static Force Capacity	140kN
Dynamic Force Capacity	100kN
Displacement Capacity	up to 500mm

RELEVANT STANDARDS

- Bar AS1442

GENERAL FEATURES

- Standard system supplied as a solid bolt with a dynamic device, polyethylene tube, resin mixing device, slot pin nut and dome ball attached.
- The energy absorption ability of the Dynamic Solid Bolt is achieved by attaching a treated dynamic device to the bolt. When the seismic event occurs the solid bolt is able to be pulled through the dynamic device hence enabling the bolt to absorb the energy and remain intact. The polyethylene sleeve acts as a debonding agent that allows the solid bolt to slip through the dynamic device.
- The dynamic device is mechanical therefore enabling repeatability in regard to the energy absorption process.
- The dynamic device is installed in the factory where good manufacture quality control is assured.

SUPPLY & PACKAGING

- 100 bolts per pack.
- Packed using appropriate timbers and steel strapping.

PRODUCT PROFILE



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Ground Support Systems

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Quality System
Quality Endorsed Company

ISO 9001:QEC 14722
SAI GLOBAL