

**EXPANSION SHELL**

**ASES**

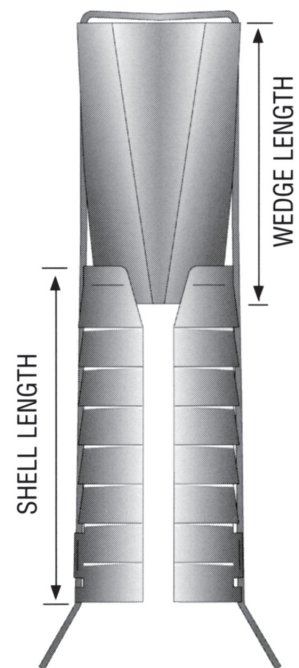
Product Code

A S E S 2 0 S T D

Bolt Diameter (mm)	Thread Form	Nominal Hole Diameter (mm)	Shell Length (mm)	Wedge Length (mm)	Nett Weight (kg)
16	M16	26	54	41	0.12
16	M16	30	54	50	0.15
20	M20	35	83	54	0.24
24	M24	45	83	57	0.60
22.7	U227	45	83	57	0.60


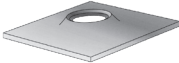


**KEY FEATURES**

- ▶ DSI expansion shells hold in any rock strata which is sufficiently competent to provide an adequate anchorage. They are designed to anchor in soft ground or hard rock. In good strata the anchorage exceeds the ultimate strength of the steel bolt. All expansion shells require a competent strata in the anchor zone. The suitability of the anchorage and the specific expansion shell to be used is best determined by physical load testing.
- ▶ DSI expansion shells feature parallel contact with the hole wall with sharp serration's on the outside leaves ensure positive holding power.
- ▶ The expansion shell assembly is securely held by a strong protective sleeve, to save installation time and prevent loss of parts while handling. The sleeve must be removed prior to installation.
- ▶ Corrosion protection may be provided by hot dip galvanizing or zinc plated to AS1789-1984.



**PRODUCT ACCESSORIES EXAMPLES**

DSI manufactures a comprehensive range of plates specifically designed for this range of Bolts. For the full range see Surface Support section or visit the product catalogue on our website. Typically plates used are:

Product Group	Starplates	Dome plates	Butterflies	W-Strap
Product Imagery				
Product Code Prefix	STP	D	BUTT	MW

**PACKAGING**

- ▶ All 16mm expansion shells are contained in cardboard boxes then packed on pallets.

**NOTES**

- ▶ Only DSI rock bolt components should be used to enable the optimum performance of the bolt system to be obtained.
- ▶ DSI Underground is Quality Assured to ISO 9001:2008, Registration No.QMS 41328.