



Expansion shell for end anchoring



SURELOCK® barrel, dome plate and grout tube

SURELOCK® mechanical anchors are flexible high-tensile steel strands of specific lengths, anchored inside a drilled hole with an innovative locking-off unit called the 'SURELOCK® swivel barrel' at the collar. The advantage of using this locking-off device is that once the required prestressed load is achieved, the shear ring shears on the barrel into a positive visual indicator with an audible knock.

SURELOCK® mechanical anchors are made to requirements as specified by the end user. These anchors are designed to give immediate support and are normally post-grouted after being pre-stressed.

ADVANTAGES

- These anchors are easily installed using trained support installation crews
- The cable anchors are manufactured to the required specifications of the customer e.g., the cut length of the strand, size of expansion shell, specified load at which shear ring activates.
- All mechanical anchors are tensioned to the required loads as specified by the customer, with hydraulic equipment approved by the supplier
- The mechanical anchors require reasonably competent rock in order for the expansion shell to embed itself inside the drilled hole
- All mechanical anchors may be grouted either before or after pre-stressing the anchors.

SPECIFICATIONS

Strand diameter (mm)	Ultimate tensile strength (tons)	Working load (tons)	Hole diameter range (mm)
12.70	18.0	10.0	38.0 to 42.0
15.24	25.0	15.0	38.0 to 42.0
18.00 Indent	35.0	20.0	38.0 to 42.0
18.00 Compact	38.00	20.0	38.0 to 42.0
22.00	50.0	20.0	48.0 to 51.0



Barrel and wedge in pre-tensioned position.



Barrel and wedge in post-tensioned position showing shear ring sheared.

TRAINING

- Duraset provide 'on the job' training and certificates are presented to individuals who successfully complete the anchor training.



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