

Mechanical anchor bolt 3-leaf expansion units

The unique 3-leaf expansion unit has exclusive features that ensure positive anchorage under the most arduous conditions.

Regular type



Bail type



SOME POPULAR TYPES:

32mm Spring loaded



43mm



30 TT



35 RB



The expansion unit, which is available as a 'bail type' unit or a 'regular type' (loose leaf) unit, is a 3-leafed mechanical anchor which conforms to the hole diameter. This feature ensures a more even load distribution between the anchor and the rock at the anchor point.

The bail type unit incorporates a pop-out top. This feature will not allow the bolt to slip past the bail as often happens with a narrow strap bail.

The pop-out holds until initial anchorage is achieved, then pops away to let the bolt pass freely and secure the bearing plate firmly against the rock face.

The serrations on the shell are rounded off. This is done to reduce point loading at the contact point between the shell and the surface of the borehole. This reduces crushing of the rock and breaching of the hole, thus taking maximum advantage of the strength of the undisturbed rock at the anchor point.

SIZES

Description	Min. hole size	Max. hole size
25mm	25mm	29mm
28mm	28mm	32mm
30mm	31mm	35mm
32mm	32mm	37mm
35 TT	35mm	38mm
35 RB	36mm	42mm
38mm	38.5mm	45mm
40mm	40mm	47mm
43mm	43mm	50mm
60mm	60mm	68mm

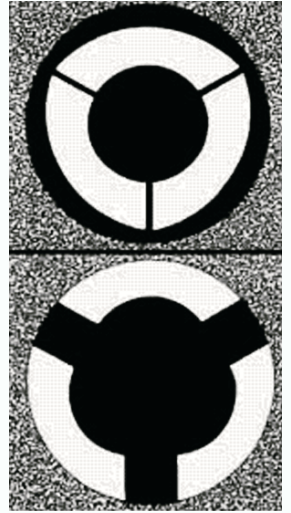
MATERIAL

1. Leaves: to SAE 1008 cold forged
2. Expander plugs: SABS 936/937 – 1969 SG iron castings grade 42 or 50
3. Bail: commercial-quality mild steel.

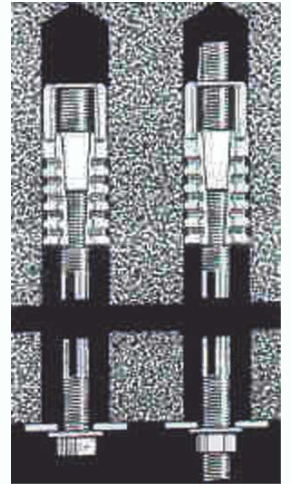
NOTE

1. Expansion units are normally supplied with ISO metric threads or DIN 405 threads. Units for UNC or BSW threaded bolts can be supplied on special order
2. Left-hand expansion units are available for left-hand threaded rock studs
3. Expansion units can be supplied as regular or bail type.

Full circle expansion feature



Bail pop-out feature



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