



# Grouted Sock Anchor & Combi-Tec

# Grouted Sock Anchor

A mechanical and chemical anchor system for stabilising structures such as bridge abutments, retaining walls and embankments.

The system comprises a high strength stainless steel Rib Bar surrounded by a woven elastic polyester Grout Sock, sealed at both ends, which is inserted into a pre-drilled hole in the structure to be stabilised and pressure grouted to form a strong mechanical and chemical reinforcement.

## HOW IT WORKS

The core holes (60-110mm dia.) are made to the required depth in the structure to be stabilised.

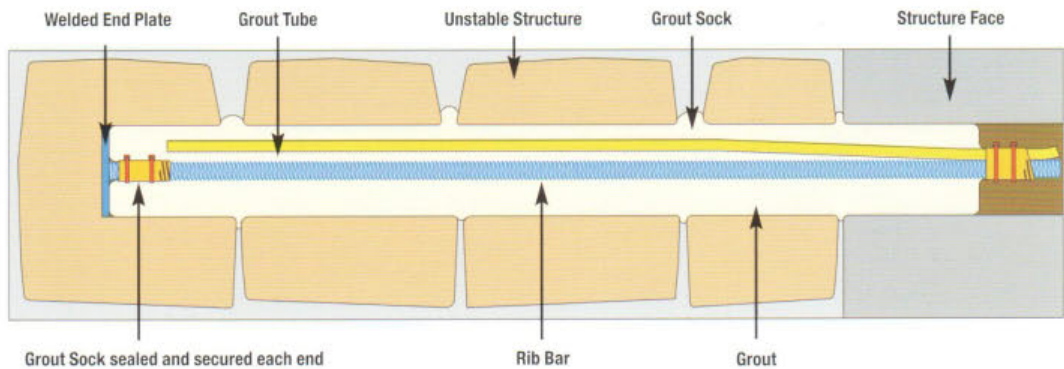
The Grouted Sock Anchor, supplied to customer specified length, is inserted into the hole.

The grout is injected at around 2.5 Bar into the Grout Sock - which acts as a temporary shutter while it expands to tightly fit the contours of the pre-drilled hole. The ability of the expanding Grout Sock to conform to local voids and fissures further enhances the performance of this system.

The woven fabric of the sock allows the water to

pass through and form an intimate chemical bond with the surrounding structure. Once cured the grout and Rib Bar become a permanent integral part of the structure adding strength, rigidity and stability. A small section of the Rib Bar is left uncovered to allow attachment of load plates and/or proof testing equipment. Once testing is complete the bar end may be covered/concealed below the surface of the structure.

Where a structure contains sharp, loose or granular fill a reusable solid sleeve may be used to protect the Grout Sock during insertion.



## TECHNICAL DATA

### Rib Bar

Material.....Stainless Steel 304 S31  
 Ultimate tensile stress .....750N/mm<sup>2</sup>  
 0.2% yield stress (minimum).....650N/mm<sup>2</sup>

Minimum elongation.....15%  
 Typical lengths.....6m  
 Straightness.....2 in 1000

| Ref  | Nom Dia. | C.S.A           | 0.2% proof load | Ultimate Tensile load | Wt/m | Torque to develop 0.15% UTS |
|------|----------|-----------------|-----------------|-----------------------|------|-----------------------------|
|      | mm       | mm <sup>2</sup> | kN              | kN                    | kg   | Nm                          |
| RB12 | 12       | 91              | 54              | 64                    | 0.73 | 40                          |
| RB16 | 16       | 167             | 108             | 124                   | 1.30 | 90                          |
| RB20 | 20       | 261             | 170             | 196                   | 2.10 | 135                         |

### Grout

A high quality, flowable, cable bolting grout.  
 Supplied in 25 kg bags. Each bag requires 10 litres of water.

For guidance only:

| Properties: | Compressive Strength N/mm <sup>2</sup> |        |        |         |
|-------------|--|--------|--------|---------|
|             | 1 day                                  | 3 days | 7 days | 28 days |
|             | 39                                     | 50     | 65     | 80      |

### Grout Sock

Medium weave polyester sleeving.

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Remove stone or brick and core drill clearance hole



Insert grouted sock anchor of specified length



Fully inflate sock by injecting flowable grout and leave to cure



Replace stone, brick or cored material and make good

