

INSTALLATION INSTRUCTIONS

for D-Bolt[®] with Oval anchors - resin grout

Recommended borehole diameter range:

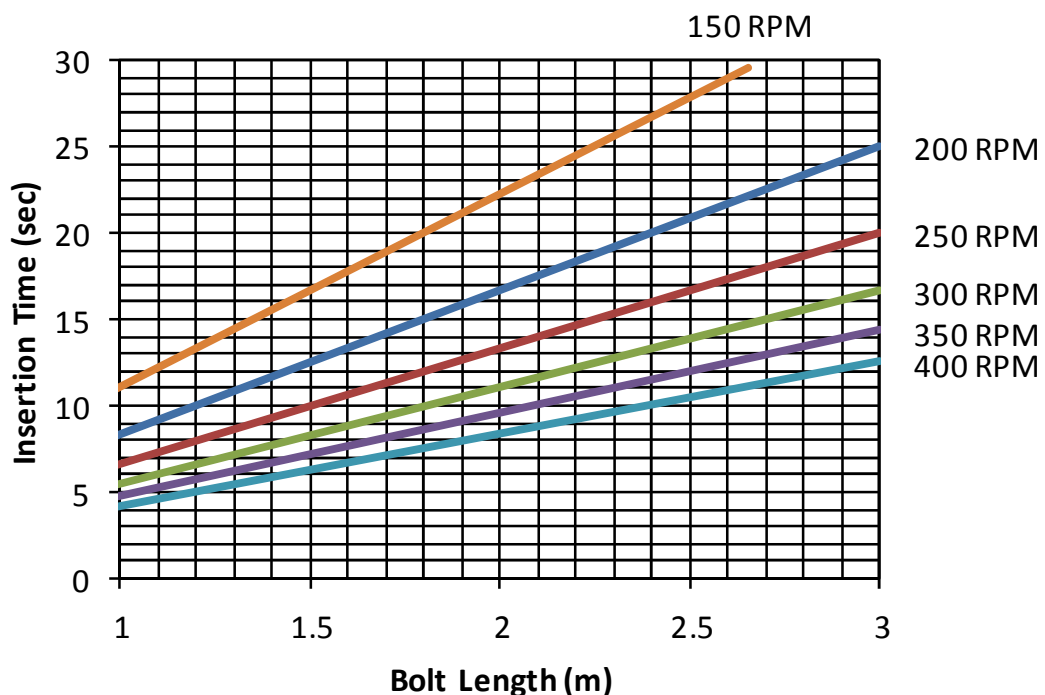
- D-Bolt Ø20: 29-33 mm
- D-Bolt Ø22: 32-36 mm.

Recommended resin cartridge diameter:

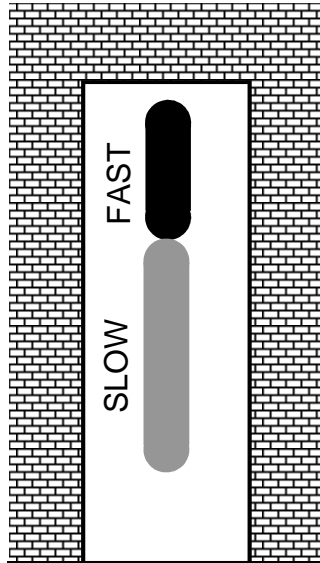
D-Bolt dia., mm	Bore hole dia., mm	Resin cartridge dia., mm
Ø20	29 - 31	25
	31 - 33	28
Ø22	32 - 34	28
	34 - 36	30

General Installation Procedure

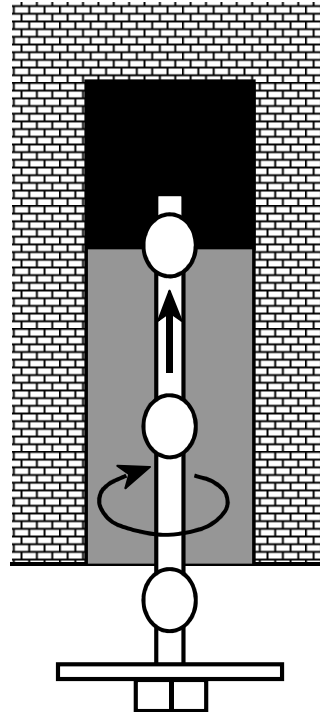
- Bolt is inserted into the borehole as needed, depending of equipment and dimensions of excavation
- Bolt is spun into the borehole until the nut and plate are close to the rock surface/mesh, approximately 20 to 50 mm.
- Bolt is spun for an additional 5-15 revolutions after stop of advance
 - 1 – 3 seconds for mechanized bolters
 - 3 – 4 seconds for hand held equipment
- Bolt must be fully encapsulated in the hole.
- For detailed instructions of insertion and grouting process see page 2.



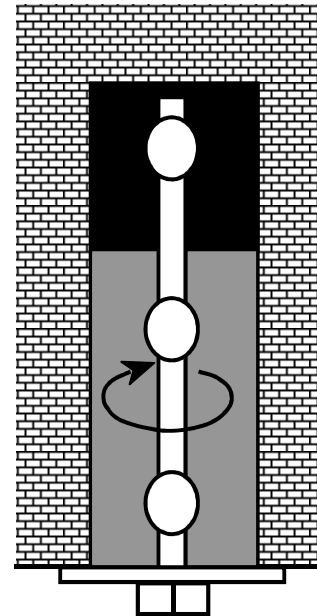
Instructions for resin grouting of D-Bolt



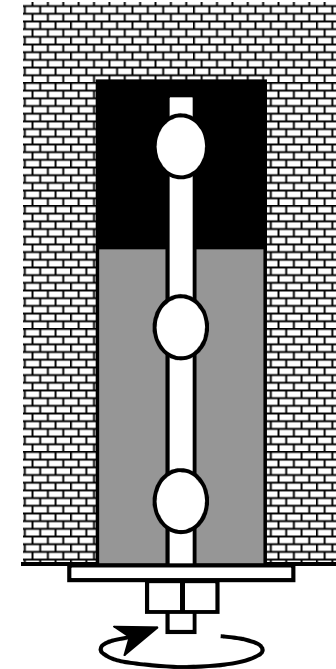
1. Insert one or two FAST cartridge(s) to the bottom of the hole and SLOW cartridges to the rest of the hole.



2. Push and spin the bolt into the hole. Find the proper insert time in the chart of insert time.



3. Continue to spin the bolt for at least 5-10 revolutions after the bolt reaches the bottom.



4. Stop rotation and hold the bolt until the FAST resin hardens and then rotate the nut to apply a small tension load.