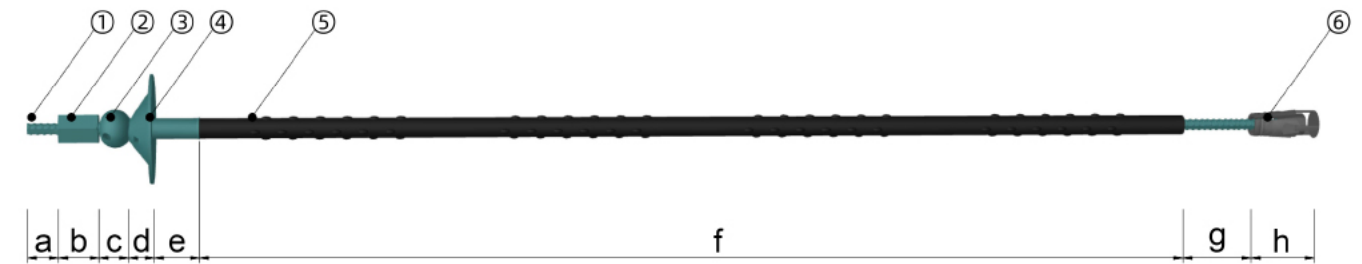


# Rock Bolt

**Rock bolts** are installed for immediate support of rock, anchored by an expansion shell, to be fully grouted at a later stage, allowing it to be classified as permanent support. The end-anchorage with tensioning of the rebar, plastic grouting pipe and the cementitious mortar embedment creates a very stiff system offering extended durability.



## Bar Size

Item	Bar Size	a	b	c	d	e	f	g	h
FG2	20	20	50	45	33	74	Bond Length-e-g	130	112
FG3/FG4	25	24	60	45	31	76		130	135
FG5	32	32	72	45	31	76		130	183

Note: Overall Length of Rock Bolt = Bond Length of Rock Bolt + 300 mm

## Part List

Item	Name of Parts
1	High Yield Full Thread Bar & Dimension as per Fig (A)
2	Hex Nut
3	Dome Shape Grout Adaptor
4	Dome Plate with Grout Hole
5	HDPE Corrugated Plastic Sheathing
6	Expansion Shell

## Fig. (A)

DIMENSION													
Diameter (mm)	dh (mm)		dv (mm)		h (mm)		Dh/dh+2h (mm)		b (mm)		l (mm)		
	Size	Tolerance	Size	Tolerance	Size	Tolerance	Size	Tolerance	Size	Tolerance	Size	Tolerance	
20	20.0	±0.4	20.0	+0.4-0.8	1.3	±0.3	22.6	±1.0	4.8	±0.5	10.0	±0.2	
25	25.0	±0.4	25.0	+0.4-0.8	1.6	±0.3	28.2	±1.0	6.0	±0.5	12.0	±0.2	
32	32.0	±0.4	32.0	+0.4-0.8	2.0	±0.4	36.0	±1.3	7.0	±0.5	16.0	±0.2	