

High capacity GFRP rock bolting solution

Thrustbolt

Injected thread rock-bolt



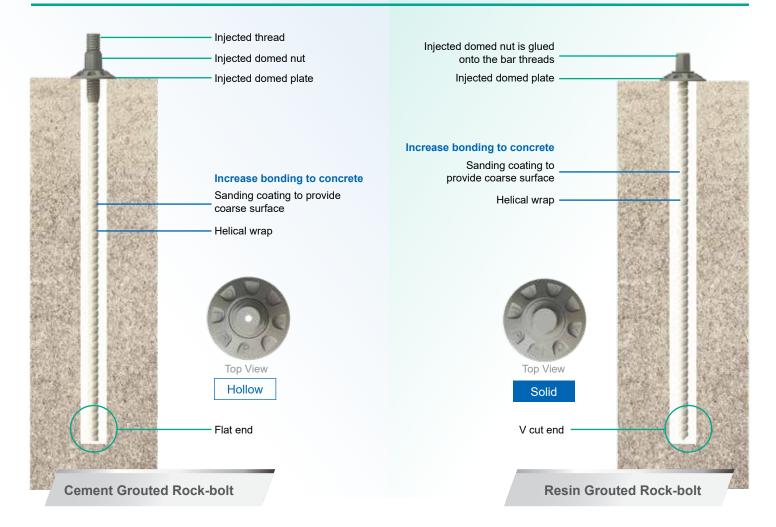
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About ASTEC GFRP Rock-bolt

ASTEC GFRP Injected Thread Rock-bolt is made for permanent and temporary applications. Installed as conventional cement grout anchor bolt, its hollow body allow the cement grout to fill the hole.Its unique glass features make it easy to cut and consume by extraction machines increasing the productivity and reducing the costs. Mainly used in mines, it is also suitable for tunnels and civil project.

ASTEC GFRP Thrust bolt is made for permanent applications. The domed nut is injected onto the bar which provides the high tensile load capacity. This is particularly adapted to installation with resin cartridges, its v cut end is designed to penetrate cartridges, the helical pattern also allows an efficient cartridge mixing.

Product design & concept



Key benefits

High head capacity

The injected thread ensures an outstanding head capacity for tensile load.

Easy and flexible installation

- / Light weight: Easy Handling & installation
- V cut and Chamfer cut to facilitate resin mix and prevent gloving
- / Helical pattern for cartridge mixing to ensure full encapsulation
- Custom lengths to adjust to ground conditions
- / Dual surface deformation and sand coating = Optimum bonding

Cost effective

- Cut-ability: Faster excavation + No removal cost.
- No Shelf Life and pre-assembled accessories
- No premature bolt failing due to corrosion

Standards

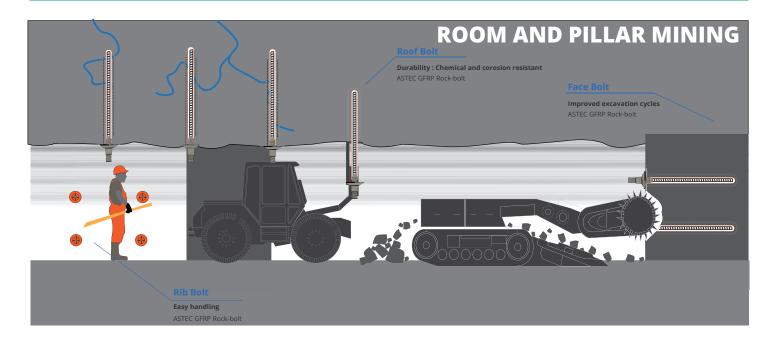


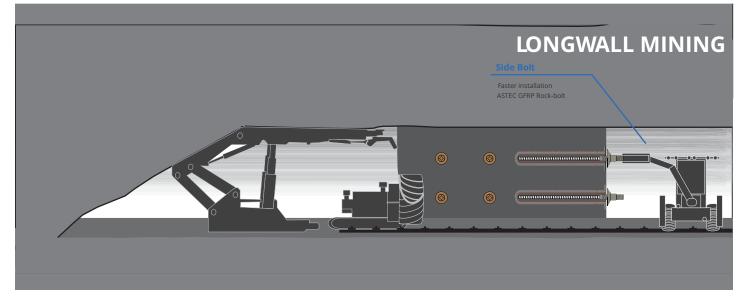
Technical Information

Injected T	hread Ro	ck-bolt	_					
			Hollow Bar					
	Nominal Dia. (mm)	Nominal CSA (mm²)	MoE: 45 GPa					
OD x ID (mm)			Grade 45T Grade 45P		Mechanical Properties			
			Fiber/Resin	Fiber/Resin	Ultimate Tensile Load (kN)	Ultimate Tensile Strength (MPa)		
32 x 13	32.3	675	ECR/PE	ECR/VE	355	526		
		l	njected Thread	ds				
Major D	Major Diameter x Pitch (mm)			Thread Length (mm)		Breaking Load (kN)		
	39.5 x 7.0			384		≥ 150		
			Accessories					
Dia	Injected Domed Nut							
(mm)	Major Diameter x Pitch (mm)		Length (mm)		Breaking Load (kN)			
32	40 x 7.0		85		≥ 150			
Dia	Injected Domed Plate							
(mm)	Diameter (mm)		Thickness(mm)		Breaking Load (kN)			
32	150		10		≥ 220			

Thrust Bo	lt						
			Solid Bar				
Dia (mm)	Nominal Dia. (mm)	Nominal CSA (mm²)	Grade 45P (MoE: 45 GPa)				
			Material		Mechanical Properties		
			Fiber	Resin	Ultimate Tensile Load (kN)	Ultimate Tensile Strength (MPa)	
25	25.4	510	ECR	Ероху	324	635	
32	32.3	819	ECR	Ероху	450	550	
35	35.0	962	ECR	Ероху	550	550	
		S	ystem Capaci	ty			
Dia (mm)	Nut Length (mm)	Nut OD (mm)	Transverse Shear (MPa)	Torque (N∙m)	System Breaking Load (kN)		
25	85	74	124	200	≥ 100		
32	85	74	124	300	≥ 130		
35	85	74	124	350	≥ 150		
			Accessories				
Dia (m			Injected Domed Plate				
Dia (mm)		Diameter (m	m) Th	Thickness (mm)		Breaking Load (kN)	
25/32/35		150		10		≥ 220	

Applications





commercial presence
in more than
555



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