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SPIT TRIGA Z
Heavy Duty Anchor

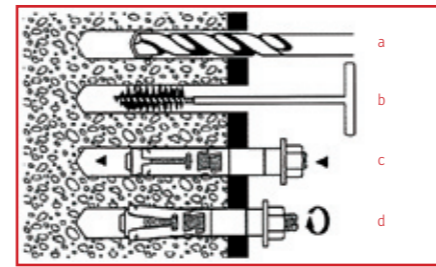
Safety expansion anchor for heavy loads

FEATURES

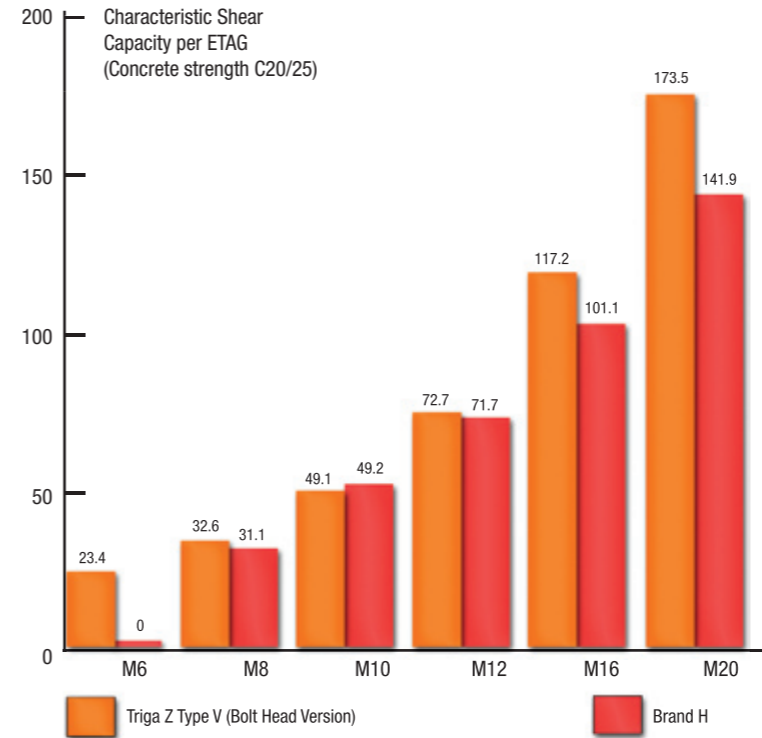
- Quick and easy through fixing.
- Simple bolt action expansion.
- Resistant to high loads (especially suitable for dynamic loads).
- Performance can be improved by deeper embedment.
- Clamps down part to be fixed.
- SPIT TRIGA Z for cracked concrete, you can also use in no cracked concrete.
- Full steel anchor.
- Z shape collapse system: Z shape shear during tightening. Ensures a good pressure between the part to be fixed and the concrete.
- Bolt and threaded rod: 8.8 quality steel for high performances.
- M6 Bolt version available.
- 5 versions: screw, bolt, countersunk, ring, hook versions available.
- Can be used with cracked or non-cracked concrete (ETA).
- ETA approval.
- 2 patents, on Z shape antirotation and Z shearing shape.



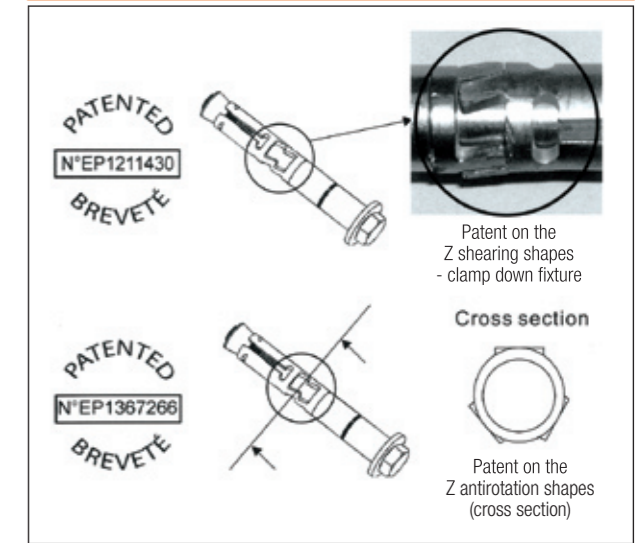
INSTALLATION



- Drill the hole to the required depth.
- Remove the drilling debris from the hole whenever there is a risk that it will prevent TRIGA Z from penetrating to its minimum anchorage depth.
- Insert the anchor and drive it home with a hammer if necessary. Tighten to the necessary torque using a torque wrench.
- With the "E" version, after expanding you may loosen the nut and then tighten the threaded stud with a screwdriver to ensure fastening with minimum overrun; then retighten the nut to the required torque.



2 Patents on TRIGA Z anchor



ANCHOR SIZE (mm)	INSTALLATION DETAILS								MINIMUM DIMENSIONS			RECOMMENDED LOAD (KN)			PART NO.	
	Anchor length, L (mm)	For fixtures up to, t _{fix} (mm)	Thread size, d	Hole diameter, d _o (mm)	Min. anchor depth, h _{ef} (mm)	Hole depth, h _L (mm)	Fixture hole diameter, d _f (mm)	Tight torque, T _{inst} (Nm)	Edge Distance C _{min} (mm)	Anchor spacing, S _{min} (mm)	Substrate thickness, h _{min} (mm)	Shear V _{rec} >C20/25	Tension, N _{rec}			
													Concrete compressive strength, f _b			
													25MPa	30MPa		37MPa
V6-10/5	65	5	M6	10	50	70	12	15	50	50	100	13.4	8.5	9.4	10.4	Triga Z V6-10/15 Triga Z V6-10/20 Triga Z E6-10/50
V6-10/20	80	20										13.4				
E6-10/50	117	50										8.1				
V8-12/10	80	10	M8	12	60	80	14	25	60	60	120	18.6	11.1	12.2	13.5	Triga Z V8-12/10 Triga Z V8-12/20 Triga Z V8-12/50 Triga Z E8-12/20 Triga Z E8-12/35 Triga Z E8-12/55 Triga Z E8-12/95
V8-12/20	90	20										18.6				
V8-12/50	120	50										18.6				
E8-12/20	99	20										10.9				
E8-12/35	114	35										10.9				
E8-12/55	134	55										10.9				
E8-12/95	174	95	10.9													
V10-15/10	95	10	M10	15	70	90	17	50	70	70	140	28.1	14.0	15.4	17.1	Triga Z V10-15/10 Triga Z V10-15/20 Triga Z V10-15/55 Triga Z E10-15/20 Triga Z E10-15/35 Triga Z E10-15/55 Triga Z E10-15/100
V10-15/20	105	20										28.1				
V10-15/55	140	55										28.1				
E10-15/20	114	20										17.7				
E10-15/35	129	35										17.7				
E10-15/55	149	55										17.7				
E10-15/100	194	100	17.7													
V12-18/10	105	10	M12	18	80	105	20	80	80	80	160	41.6	17.2	18.9	20.9	Triga Z V12-18/10 Triga Z V12-18/25 Triga Z V12-18/55 Triga Z E12-18/25 Triga Z E12-18/45 Triga Z E12-18/65 Triga Z E12-18/100
V12-18/25	120	25										41.6				
V12-18/55	150	55										41.6				
E12-18/25	132	25										27.1				
E12-18/45	152	45										27.1				
E12-18/65	172	65										27.1				
E12-18/100	207	100	27.1													
V16-24/10	130	10	M16	24	100	131	26	120	100	100	200	67.0	24.0	26.4	29.3	Triga Z V16-24/10 Triga Z V16-24/25 Triga Z V16-24/50 Triga Z E16-24/25 Triga Z E16-24/55 Triga Z E16-24/100
V16-24/25	145	25										67.0				
V16-24/50	170	50										67.0				
E16-24/25	159	25										53.2				
E16-24/55	189	55										53.2				
E16-24/100	234	100										53.2				
V20-28/25	170	25	M20	28	125	157	31	200	150	125	250	99.1	33.5	36.8	40.8	Triga Z V20-28/25 Triga Z E20-28/25 Triga Z E20-28/60 Triga Z E20-28/100
E20-28/25	192	25										62.8				
E20-28/60	227	60										62.8				
E20-28/100	267	100										62.8				



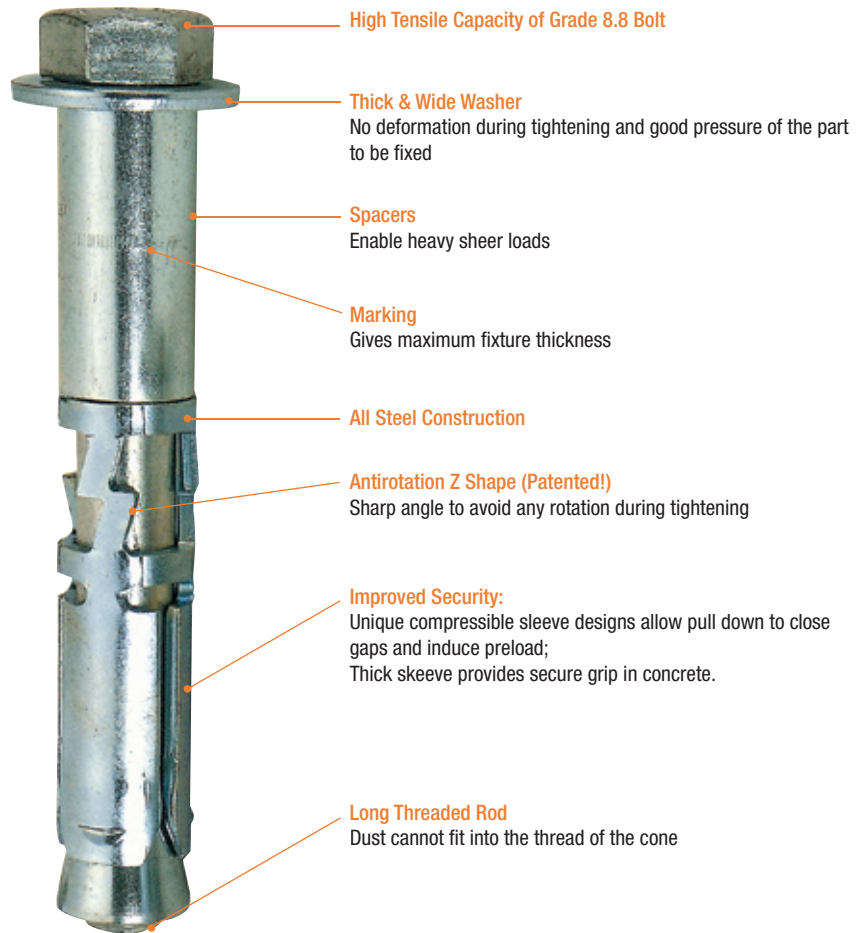
The Triga Z Safety Anchor is a heavy duty, torque setting, thick-sleeve expansion anchor

PRINCIPAL APPLICATIONS

- structural beams and columns
- machinery and heavy plant hold down
- lift guide rails, overhead crane rails
- safety barrier
- heavy duty & suitable for cyclic loading and seismic conditions



Example of an application



Main upgrading project using Spit Triga Z for bracket of SAI

TRIGA Z
Pigtail Version



TRIGA Z
Ring Version



TRIGA Z
Countersunk Version



TRIGA Z
Bolt Version



TRIGA Z
Loose Nut Version



Various TRIGA Z Heads Available!



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