

# Z-BAR

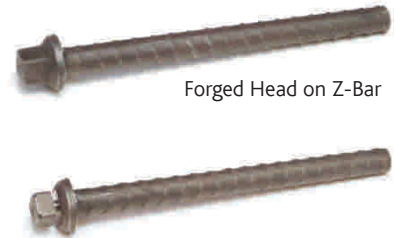
## RESIN BOLTING TECHNOLOGY



Nibbed Z-Bar  
for reverse spin



Shear-pin nut Z-Bar  
for spin to shear



Forged Head on Z-Bar



Relieved Forged Head - Spin to Shear  
No bolt protrusions in low seam  
height/stopping widths.

Z-Bar is a hot-rolled bar formed to give superior performance when used in conjunction with the latest resin bolting technology. The bar is designed in such a way that the nominal diameter of the bar approximates the pitch diameter of the thread, thus allowing for maximum thread strength, in relation to nominal bar diameter.

## SPECIFICATIONS

Lengths	Studs and bolts are available in standard lengths from 0.6m to 3.0m in increments of 0.3m. The length of the studs are measured overall, and bolts are measured from the end to under the forged head. Non-standard lengths are available on request.		
Available thread types and dimensions (LH and RH available)	All threads are formed by a cold-rolled process and are available in either left hand or right hand threads.		
	DIN 405		
	18mm Z-Bar - RD 20 x 8	20mm Z-Bar - RD 22 x 8	
Mechanical properties	Yield strength	Ultimate tensile strength	Elongation
	480 MPa (min.)	600MPa (min)	14% (min.) after fracture

## PRODUCT TESTING FACILITIES

Duraset have a technologically advanced computerised tensile/compression testing facility, which we use for Research and Development as well as Quality Control. In addition to Research and Development and Quality Control tests, this facility is also capable of conducting short encapsulation and double embedment pull tests.

## COMMITMENT TO ONGOING R&D

With ongoing investment in R&D in collaboration with our customers, Duraset is committed to continuously improve resin bolting technology resulting in better cost efficiencies.

Our multi-disciplinary R&D team work closely with research organisations and Universities to ensure ongoing innovation in resin bolting applications.

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