



## Technical specification GMA Elongation Bolt

### Material specification 20,3 mm, M22

Steel Specification		
Diameter	20,3 mm	
Mass	2,54 kg/m	
	Data	Typical*
Yield strength Re	Min 460 N/mm <sup>2</sup>	520-540 N/mm <sup>2</sup>
Tensile strength Rm	Min 600 N/mm <sup>2</sup>	700-740 N/mm <sup>2</sup>
Elongation A5	Min 19%	20-21 %
Bar Specification, Thread section		
	Steel specification	Typical lab test
Yield load	Min 130 kN	165 kN
Ultimate tensile load	Min 175 kN	220 kN
Bar Specification, smooth bar		
	Steel specification	Typical lab test
Yield load	Min 149 kN	178 kN
Ultimate tensile load	Min 194 kN	227 kN
Static pull test 20,3 mm 2,15m		
Yield load		178 kN
Ultimate tensile load		227 kN
Elongation		290 mm

\* Based on tests from steel supplier