



basic education

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REPUBLIC OF SOUTH AFRICA

NATIONAL SENIOR CERTIFICATE

GRADE 11

PHYSICAL SCIENCES: PHYSICS (P1)

EXEMPLAR 2013

MARKS: 150

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web aug 16 2017 1 2 the bolts are intended for use in structural connections these connections are covered under the
requirements of the specification for structural joints using astm a 325 or a 490 bolts approved by the research council on
structural connections of the engineering foundation 1 3 the bolts are furnished in sizes ½ to 1½

bolt torque chart a325 pdf scribd - Aug 08 2023

web astm a325 tension tightening torque range bolt size tpi min max galv waxed plain 1 2 13 12 000 14 000 50 portland bolt
astm a325 torque standard andrian firmansyah bolt torque astm a 490 bolt torque astm a 490 rinaldo kurniawan