

ASTM A 194/A 194M Carbon and Alloy Steel Nuts for Bolts for High Pressure and High Temperature Service

BS 1092-1 Circular Flanges for Pipes, Valves and Fittings (PN Designated). Specification for Steel Flanges

ISO 9000 Quality Management Systems.

ISO 10474 Steel and Steen Products

BS EN 13476 Plastic piping systems for non-pressure underground drainage and sewerage

23.1.4 Submittals

23.1.4.1 Products and materials approval.

In order to verify compliance with the specification the Contractor shall submit information for all products and materials used in the Works to the Engineer for approval sufficiently in advance of their use in accordance with the Contract programme allowing for ordering and approval times. Reference shall also be made to Section 01600 of the specification on products and materials approval. Information to be submitted shall comprise but not necessarily be limited to:

- i. The manufacturers design calculations, complete and detailed specification and test results of the proposed Steel pipes and fittings required for the Works including manufacturer's certificates of compliance with this section of the standard specification. Information on all items listed below shall be given for every diameter in each class of pipe.
 - ii. Should any details of the pipes and fittings be altered in any way during manufacture from those proposed and approved by the Engineer, submit for the Engineer's approval the revised details and test results.
 - iii. Submit to the Engineer the results of all quality control tests carried out on the manufactured pipes and fittings as soon as practicable after testing and in any case not later than the time of delivery of the relevant pipes and fittings to the site.
- Detailed reference list to fulfil criteria for acceptance.
 - Catalogues/Brochures.