

AIRENG PTY LTD

GENERAL INSTRUCTIONS TO THE CONTRACTOR RESPONSIBLE FOR THE FAN SUPPORT STRUCTURE

When the civil engineering work on the metal structure is being determined, the modes of vibration should be calculated with a view;

- a). To ensure no resonant peak in the machine support system including, as appropriate, floor elasticity, is located in the vicinity of the operating speed range of the machine. It is recommended that these resonant peaks be at least 40% on either side of the operating speed range.
- b). In substituting equivalent static forces for the dynamic forces (turning forces) in the static design of the structure, the equivalent static forces are computed by multiplying the dynamic forces (turning forces) by a fatigue coefficient of the support material and by a dynamic coefficient corresponding to the offset between the frequency of rotation of the machine and the frequency of the structure: In this connection it may be useful to refer to standard DIN 4024.