

ABSTRACT

THREADED FASTENER

A threaded fastener having a threaded portion with a ratio of pitch diameter to minor diameter less than 1.28, and the threaded portion with a major diameter portion, a leading flank having a normal angle between 10° and 60° , a trailing flank having a normal angle between 1° and 30° , and a shank portion extending between the trailing flank and the leading flank of adjacent threads of a arcuate surface having a radius greater than the thread height, where the ratio between the axial length of the shank portion to thread height is between 1.5 and 3.0. The arcuate surface forming the shank portion may have a radius between 1.2 and 1.8 times the thread height.

Fig. 1