

All standard Blacks screws are made in accordance with the latest issues of the thread specifications shown in Table 2. Other dimensional features conform with the specifications listed in Table 1.

Standard products, unless specifically requested, are manufactured to the Australian standard (AS) specifications which are designed to ensure interchangeability with corresponding International (ISO) American (ANSI/ASME) and British (BS) standards.

Table 2 Thread Specifications

Screw thread system	Specification	Title
British Standard Whitworth B.S.W.	AS 3501	Parallel Screw Threads of Whitworth Form
Unified National Fine UNF	AS 3635	Unified Screw Threads
Unified National Coarse UNC		
ISO Metric Coarse Pitch Series	AS 1275	Metric Screw Threads for Fasteners
ISO Metric Fine Pitch Series	AS 1721	General Purpose Metric Screw Threads

Screw Thread Terminology

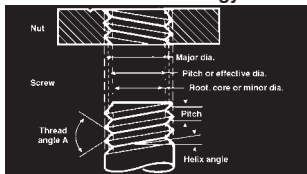


FIGURE 1

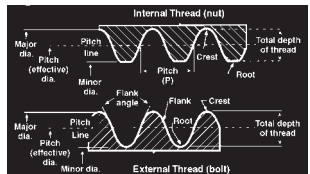


FIGURE 2

Standard Thread Forms

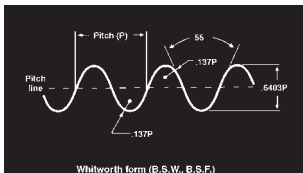


FIGURE 3

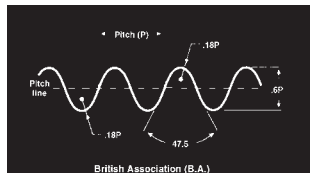


FIGURE 4

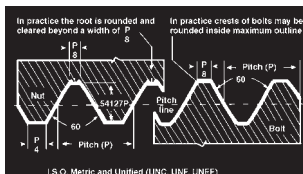


FIGURE 5

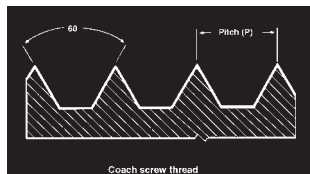


FIGURE 6

Thread Fits

Screw thread standards provide for various classes of fit using a hole basis tolerancing system (ie maximum metal limit of the internal thread is basic size), allowances for fit being applied to the external (bolt) thread.

Exception is made for galvanised fasteners where an additional

allowance is made in the nut (which is tapped after galvanising) to accommodate the thick coating on the male thread. Only Free/1A/8g and Medium/2A/6g threads should be galvanised.

Table 3 consists of the three thread class combinations which apply to the majority of commercial applications.

Table 3

	Thread class			Application
	Whitworth (BSW & BSF)	United (UNC & UNF)	ISO Metric	
Bolt Nut	Free Normal	1A 1B	8g 7H	Applies to the majority of nuts and bolts of ordinary commercial quality. The clearance permits rapid assembly without excessive play.
Bolt Nut	Medium Normal	2A 2B	6g 6H	Represents a precision quality screw thread product.
Bolt Nut	Close Medium	3A 3B	4h 5H	An exceptionally high grade threaded product, recommended only for applications where a close snug fit is essential. (See note.)

NOTE: These higher classes do not make any allowance for fit (ie maximum bolts and minimum nuts have a common size) and under some circumstances selective assembly may be necessary.