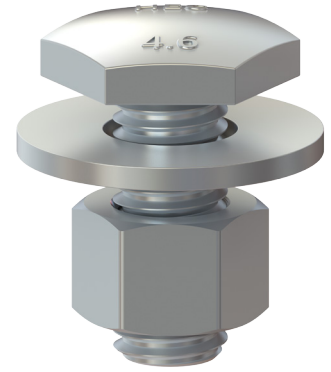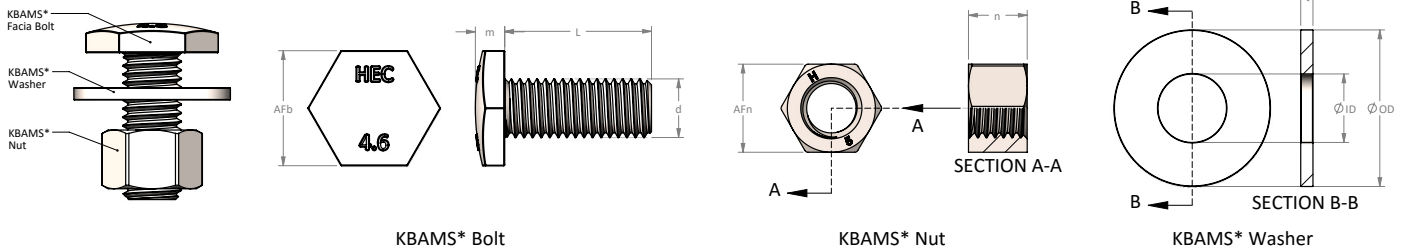# Product Data Sheet
Hobson 4.6 Fascia Bolt Assemblies

A Hobson 4.6 Fascia Bolt assembly consists of a property class 4.6 bolt, a washer and a class 5 nut. They come in two types of coating, zinc plated (ZP) and hot dip galvanised (HDG).

In the absence of tightening torque information from specifying engineers or fascia suppliers, the indicative tightening torque shown below can be used as a guide to establish the suitable tightening torque.

KBAMS* Bolt

KBAMS* Nut

KBAMS* Washer

Part Number	Finish	Thread Size	Bolt			Nut		Washer			Indicative Tightening Torque[1]	Bolt Tension[2]
			Across Flats	Head Height	Bolt Length	Across Flats on Nut	Nut height	Outside Diameter	Inside Diameter	Washer Thickness		
		d	AF$_b$	m	L	AF$_n$	n	OD	ID	t	T	P
			(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(N-m)	(N)
KBAMSGCM120030	HDG	M12	24	6.0	30	18	10.5	32	14	2.5	28.0	9,500
KBAMSZCM120030	ZP	M12	24	6.0	30	18	10.5	32	14	2.5	25.0	9,500
KBAMSZCM160030	ZP	M16	24	6.5	30	24	14.5	34	18	3.0	62.0	17,650
KBAMSZCM160040	ZP	M16	24	6.5	40	24	14.5	34	18	3.0	62.0	17,650

Important Notes:

[1] Tightening torque T is calculated by using the basic formula, $T = P \cdot k \cdot D$, where P is the intended bolt tension assumed to be 50% percent of the bolt's proof load, k is the torque-friction factor and D is the thread diameter. The k value used for zinc plated and hot dip galvanised assemblies are 0.22 and 0.25 respectively. Note that the value of k can vary depending on thread conditions, thread/bearing surfaces lubrication and site conditions. All relevant bearing surfaces are assumed to be in full contact as shown in Fig. 1. The required bolt tension and torque should be validated/defined by the deciding engineer.

[2] Bolt tension is calculated at 50% percent of the bolt's proof load.

Installation Reminder:

Skewed bolt assembly orientation should be avoided. The base of the head and the base of the nut should be in full contact with the fastened component(s) as shown on Fig. 1.

Hole size and dimensions should be in accordance with AS4600 or as specified by the designing engineer.
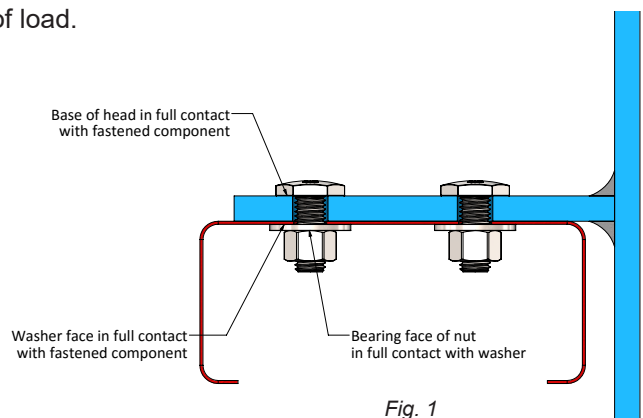

Base of head in full contact with fastened component

Washer face in full contact with fastened component

Bearing face of nut in full contact with washer

Fig. 1