



DESIGNATOR	D	ANSI THREAD	T MIN	S MAX	M MAX
FRS16a-b	5/8 [16]	5/8-11 [M16x2]	2-9/16 [65]	1-1/16 [27.0]	39/64 [17.1]
FRS20a-b	3/4 [20]	3/4-10 [M20x2.5]	2-15/16 [75]	1-1/4 [34.0]	47/64 [20.7]
FRS24a-b	1 [24]	1-8 [M24x3]	3-11/32 [85]	1-5/8 [41.0]	63/64 [24.2]
FRS30a-b	1-1/4 [30]	1-1/4-7 [M30x3.5]	3-29/32 [99]	2 [50.0]	1-7/32 [30.7]
FRS36a-b	1-3/8 [36]	1-3/8-6 [M36x4]	4-7/16 [113]	2-3/16 [60.0]	1-11/32 [36.6]

## STRAIGHT ANCHOR STUD AND NUTS

FRS16a-36b

SHEET NO.

DATE:

1 of 2

7/27/2005

## SPECIFICATIONS

Anchor studs shall conform to AASHTO M 314 except that threads and nominal diameters shall conform to ANSI B1.1 [ANSI B1.13M] for Class 2AG [7g] tolerances. Anchor studs shall conform to one of the following AASHTO M 314 grades:

FRS16a-36a: AASHTO M 314 Grade 36 (58 ksi [400 MPa] minimum tensile strength)  
or AASHTO M 314 Grade 55 (75 ksi [517 MPa] minimum tensile strength)  
FRS16b-36b: AASHTO M 314 Grade 105 (125 ksi [862 MPa] minimum tensile strength)

Heavy hex nuts shall conform to the requirements of AASHTO M 291 (ASTM A 563) Grade DH [AASHTO M 291M (ASTM A 563M) Class 10S] and shall conform to the geometry of ANSI B18.2.2 [ANSI B18.2.4.6M Style 1] for heavy hex nuts. Threads shall conform to ANSI B1.1 Class 2B [ANSI B1.13M Class 6h].

Galvanized anchor studs shall be finished according to either AASHTO M 232 (ASTM A 153/A 153M) for Class C or AASHTO M 298 (ASTM B 695) for Class 50. Hex nuts shall be galvanized according to either AASHTO M 232 (ASTM A 153/A 153M) for Class C or AASHTO M 298 (ASTM B 695) for Class 50.

Dimensional tolerances not shown or implied are intended to be those consistent with the proper functioning of the part, including its appearance and accepted manufacturing practices.

## INTENDED USE

Anchor studs are used in a variety of systems.

## STRAIGHT ANCHOR STUD & NUTS

**FRS16a-36b**

SHEET NO.

DATE

2 of 2

7/27/2005