

SPECIFICATION

Roadside Safety Devices

Designator: **TFBH04**

Description: **SHOULDERED CABLE
HOOK BOLT AND NUT**



Traffic Engineering

Hook bolts shall have M8x1.25 metric threads as defined in ANSI B1.13M for Class 6g threads. Material for zinc-coated bolts shall conform to ASTM F568 for Class 4.6 bolts (tensile strength 400 MPa and yield strength of 240 MPa). Material for corrosion resistant hook bolts shall conform to ASTM F568 for Class 8.8.3 bolts (830 MPa tensile strength and 660 MPa yield strength). The end of the hook bolt shall be marked with the symbol "4.6" if zinc-coated and "8.8.3" if corrosion resistant steel is used as specified in ASTM F568 Section 9. The hook bolts shall conform to the dimensions and tolerances given in IFI 524 for round bend hook bolts. Bolts, as installed, shall develop an ultimate hook pull-open strength of from 2 to 4.5 kN applied in a direction normal to the longitudinal axis of the post.

Zinc-coated nuts shall be manufactured according to the dimensions and tolerances in ANSI B18.2.4.1M for metric Style 1 hex nuts (shown in drawings). Corrosion resistant nuts shall be manufactured according to the dimensions and tolerances in ANSI B18.2.4.6M (not shown in drawing). Threads shall be M8x1.25 Class 6H as defined in ANSI B1.13M. Zinc-coated nuts shall conform to the requirements of A563M for Class 5 nuts. Corrosion resistant nuts shall conform to the requirements of AASHTO M291M (ASTM A563M) for Class 8S3.

Zinc-coated bolts and nuts shall conform to either AASHTO M232 (ASTM A153) Class C or AASHTO M298 (ASTM B695) Class 50.

Designator	Stress Area of Threaded Bolt Shank (mm ²)	Minimum Bolt Bolt Strength (kN)
TFBH04	36.6	14.6

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. Shouldered Cable Hook Bolt and Nut may be supplied in the nearest equivalent Imperial, or English, units and corresponding manufacturing specification.

Shouldered Cable Hook Bolt and Nut shall be supplied in separate, sturdy, waterproof pails that are either plastic or metal with quantities of 200 in each container. The containers must be suitable for storage outdoors and withstand, for up to 12 months, typical weather conditions and UV exposure that would be expected in Manitoba.

Effective Date: September 1, 2001

Revised Date: May 6, 2014

