

Special (onsite) Inspection for HRC 670 Installation

V1 7/15/20



TECH NOTE

Introduction:

This document has been prepared to address frequently asked questions related to special (onsite) inspection for HRC 670 field-installed heads.

Background:

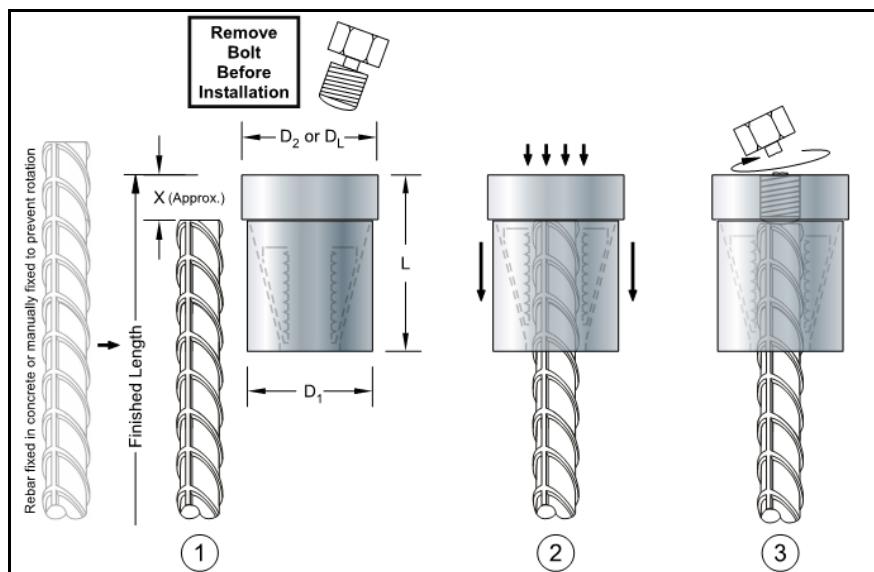
The HRC 670 was developed specifically for field installation / retrofit of existing bars where standard (pre-planned) headed bars cannot be used.

Product Description:

HRC 670 field installed heads are mechanical anchorage devices with an internal wedged grip system & external tension bolt that are used to attach them to bars at the jobsite. This product is manufactured by Headed Reinforcement Corporation (HRC) and doesn't require any special prep on the bar and/or special tools to be used for installation.

Product Installation:

Three simple and logical steps are required to complete installation. There is no special certification or training required to be qualified for installing these heads – installation is well within the scope of reinforcing bar installation.



Several documents discuss installation requirements:

- The HRC 670 product information page on the HRC website, including installation videos, is available [HERE](#)
- The full HRC 670 Installation Procedure on the HRC website is available [HERE](#)
- Section 4.2 of the IAPMO-ES ER-177 report on the HRC website is available [HERE](#)

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Product Inspection:

Correct application can be verified by observing that the HRC 670 installation procedures are properly followed.

HRC does not require special inspection of HRC 670 installation. Inspection is performed for headed bars just as it is for other reinforcing bars; to make sure the correct materials are being installed according to approved drawings – inspection is generally responsible for verifying quantity, grade, size, location and placement of headed bars. The bolt head breaking off is a visual verification that installation of an HRC 670 field installed head has been completed.

Any field testing (sometimes referenced by inspectors) cannot reach the loads the product is qualified for (minimum tensile strength of the bar, 80 ksi for A706-60 for example) without yielding the bar or damaging the concrete bond.

Section 4.3 of the IAPMO-ES ER-177 report on the HRC website discusses inspection and is available [HERE](#)

Quality Control:

Each lot of HRC 670 heads is tested prior to sale. Additional quality control testing can be completed if desired, but requires sending HRC at least 2 samples of bar material with heads installed that are representative of the batch of headed bars on the jobsite. Inquire with HRC for details, sample bar requirements and cost of testing.