



Member of the FM Global Group

Not to be distributed outside of FM Approvals and its affiliates except by Customer

# APPROVAL REPORT

**Project No:** PR458424  
**Class:** 1952/1953  
**Product Type:** Concrete Anchor  
**Product Name:** Concrete Screw Anchor Model UTB 14158RH  
**Name of Listing Company:** Ucan Fastening Products  
**Address of Listing Company:** Div British Fastening Systems Ltd  
155 Champagne Dr, Unit 10  
North York ON  
M3J 2C6  
Canada  
**Customer ID:** 1000007941  
**Customer Website:** <http://www.ucanfast.com>

**Prepared by**

Emily M. Tacopina  
Engineer

**Reviewed by**

Aaron S. Butler  
AVP, Technical Team Manager

David B. Fuller  
VP, Manager - Fire Protection

**September 2, 2021**  
**Date of Approval**

## 1 INTRODUCTION

1.1 UCAN Fastening Products requested Approval of the concrete screw anchor Model UTB 14158RH detailed in this Report for compliance with the standard listed in Section 1.3 as suitable for the listing categories described in Section 1.4.

1.2 This Report may be freely reproduced only in its entirety and without modification.

### 1.3 Standards

Title	Number	Issue Date
Pipe Hanger Components for Automatic Sprinkler Systems	1951, 1952, 1953	December 2016

### 1.4 Listing

The products will be updated in the Approval Guide, an on-line resource of FM Approvals, as follows with all changes highlighted, deletions shown with strikethroughs and additions in red text.

## 2 DESCRIPTION

2.1 The Model UTB 14158RH is a new concrete screw anchor for UCAN Fastening Products. These anchors are designed for use in already set concrete floors or roof slabs to hold automatic sprinkler piping. The concrete screw has an internally threaded head for use with 3/8" hanger rod.

## 3 EXAMINATIONS AND TESTS

3.1 Samples were submitted for examination and testing. The samples were considered to be representative of the product line and were examined, tested, and compared to the manufacturer's drawings. All data is on file at FM Approvals along with other documents and correspondence applicable to this program.

3.2 All testing and analysis considered appropriate was conducted and verified to be in compliance with the Standard defined in Section 1.3.

## 4 MARKING

The following information appears on the anchor and/or the label of each box and meets Standard requirements.

- Manufacturer's name
- Manufacturer's source code

- Model designation
- Hanger rod size
- The FM Approvals certification mark

## 5 REMARKS

- 5.1 Installation shall comply with the relevant requirements of the applicable FM Global *Property Loss Prevention Data Sheets*.
- 5.2 Installation shall comply with the latest edition of the manufacturer's installation instructions.

## 6 SURVEILLANCE AUDIT

The design and manufacturing facilities at the following locations shall be visited on a routine basis. The facility processes and quality control procedures in place have been determined to be satisfactory to manufacture product identical to that tested and Approved. A FM Approved Products/Specification-Tested Revision Request Form shall be submitted to FM Approvals for requesting to manufacture product at any additional or alternate manufacturing facilities which are not listed below.

### Design

Ucan Fastening Products  
Div British Fastening Systems Ltd  
155 Champagne Dr, Unit 10  
North York ON  
M3J 2C6  
Canada

### Manufacturing

Manufactured for Ucan Fastening Products  
at Location B

## 7 MANUFACTURER'S RESPONSIBILITIES

- 7.1 Documentation that is applicable to this approval is on file at FM Approvals and listed in the Documentation File, Section 8, of this Report. No changes of any nature shall be made unless notice of the proposed change has been given and written authorization obtained from FM Approvals. The FM Approved Product/Specification-Tested Revision Request Form, FM Approvals Form F 619, shall be forwarded to FM Approvals as notice of proposed changes.
- 7.2 Ucan Fastening Products is responsible for control of the product marking and installation instructions for the products.
- 7.3 Ucan Fastening Products shall provide installation, operating, and maintenance manual with each product.

- 7.4** In accordance with the Master Agreement, the Ucan Fastening Products shall make full and immediate disclosure to FM Approvals of all information concerning any defect in, or potential hazard of, the product or service manufactured or provided by the Customer which is Approved by, or being examined by, FM Approvals. Ucan Fastening Products shall make all necessary arrangements for the investigation of complaints / anomalies applicable to this approval and shall keep records of all complaints / anomalies including actions taken.
- 7.5** Composition of materials shall be verified by vendor certifications. The chemical or physical properties that are critical to the functioning of the item shall be sample tested. Testing shall be performed by the manufacturer or, on their behalf, by an agency independent of the vendor. Testing shall be conducted at a minimum of once a year.
- 7.6** The manufacturer shall measure and record critical component dimensions, material thickness, markings, and threaded connections (as applicable) at the beginning of each production run. Thereafter, these measurements shall be recorded every 4 hours. The number of samples to be measured shall be based on the manufacturer's Quality Control Manual, but in no case shall be less than five samples. Measurements shall be compared to the latest revision of the component drawings.

## **8 DOCUMENTATION**

See attached critical document list and Materials list.

## **9 CONCLUSION**

The pipe hanger components described in this Report meet FM Approvals requirements. Since a duly signed Master Agreement is on file for this manufacturer Approval is effective the date of this Report.

**PROJECT DATA RECORD:** PR458424

**ATTACHMENTS:**

- Listings
- Typical Sales Labels
- Materials List
- Controlled Document List

## Listing

### Screws

Threaded head screws provide anchorage to concrete, steel or wood building structural members for supporting pipe hangers. Fasteners have not been evaluated by FM Approvals for support of pipe hangers to structural members in Earthquake Zones as defined by FM Global Property Loss Prevention Data Sheet 1-2. The restrictions discussed in Data Sheet 1-2 should be followed.

Model No	Description	Hanger Rod Size, in (mm)	Nominal Pipe Size	
			in	(mm)
UTB 14158RH	Concrete Screw Anchor	3/8	3/4 through 4	(20 through 100)

Typical Sales Label

<b>UCAN TORPEDO ROD HANGER</b>		
<b>SUPPORT DE TIGE À TORPILLE</b>		
MAX. INSTALLATION TORQUE 19 ft. - lbs.		HANGER ROD SIZE: 3/8-16 UNC
DRILL SIZE. MECHE	<b>1/4" ANSI</b>	
MIN. EMBED.: <b>1-5/8"</b>		
<b>UTB 14158RH</b>		<b>1/4 X 1-5/8"</b>
		<b>QTY: 800</b>
		BATCH:
<b>MADE IN/FABRIQUE AU TAIWAN</b>		

**Materials List**

<b><i>Drawing No.</i></b>	<b><i>REV</i></b>	<b><i>Drawing Title</i></b>	<b><i>Material</i></b>
UTB14158RH	7.14.21	3/8" high head concrete screw rod anchors	Carbon Steel 10B21

**Controlled Documents List**

***Blueprint Report***

***UCAN Fastening Products (1000007941)***

**Class No 1952**

***Original Project I.D. 458424***

<u>Drawing No.</u>	<u>Revision Level</u>	<u>Drawing Title</u>	<u>Last Report</u>
UTB14158RH	7.14.21	3/8" high head concrete screw rod anchors	PR458424