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APPROVAL REPORT

Project No: PR458424
Class: 1952/1953
Product Type: Concrete Anchor
Product Name: Cast-in Place Anchor Models UPI 38 and UPI 12

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 cast-in place anchor Models UPI 38 and UPI 12 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 Models UPI 38 and UPI 12 are new cast-in place concrete anchors for UCAN Fastening Products. These anchors are for use in newly poured concrete floors or roof slabs to hold automatic sprinkler piping. The cast-in place concrete anchors have internally threaded heads that utilize 3/8" and 1/2" hanger rod respectively.

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 A

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


Concrete Inserts

Concrete inserts provide anchorage to concrete building structures for supporting pipe hangers. Concrete inserts must be installed when the building is constructed.

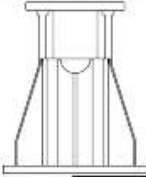
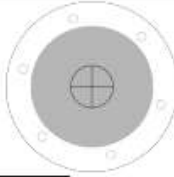
Model No	Description	Hanger Rod Size, in (mm)	Nominal Pipe Size	
			in	(mm)
UPI 38	Cast-in place concrete anchor	3/8	3/4 through 4	(20 through 100)
UPI 12	Cast-in place concrete anchor	1/2	5, 6, 8	(125, 150, 200)

Typical Sales Labels

UCAN PRECAST INSERT
INSERTION PRÉFABRIQUÉ UCAN



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HANGER ROD SIZE:
1/2-13 UNC

UPI 12

UNC 1/2-13

QTY: 100


BATCH:





7 47004 62204 2

MADE IN/FABRIQUE AU CHINA

UCAN PRECAST INSERT
INSERTION PRÉFABRIQUÉ UCAN



APPROVED




HANGER ROD SIZE:
3/8-16 UNC

UPI 38

UNC 3/8-16

QTY: 100

BATCH:



7 47004 62202 8

MADE IN/FABRIQUE AU CHINA

Materials List

<i>Drawing No.</i>	<i>REV</i>	<i>Drawing Title</i>	<i>Material</i>
NAIL	7.14.21	Nail for UPI	Steel C1045
Plastic Sleeve	7.14.21	Plastic Sleeve for UCAN Pre-Cast Insert	Polypropylene PPB-M02(J340)
UPI12	7.14.21	UCAN Pre-Cast Insert for Wood Forms	GB/T 6478 Grade U40088(ML08Al) GB/T 700 Grade Q195-235 JIS G3507-1 Grade SWRCH8A GB/T 6478
UPI38	7.14.21	UCAN Pre-Cast Insert for Wood Forms	Grade U40088(ML08Al) GB/T 700 Grade Q195-235 JIS G3507-1 Grade SWRCH8A

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>
NAIL	7.14.21	Nail for UPI	PR458424
Plastic Sleeve	7.14.21	Plastic Sleeve for UCAN Pre-Cast Insert	PR458424
UPI12	7.14.21	UCAN Pre-Cast Insert for Wood Forms	PR458424
UPI38	7.14.21	UCAN Pre-Cast Insert for Wood Forms	PR458424