

## **FM Certificate of Compliance**

Lindapter M10 Swiftgrip Beam clamp

valid for

**Girder clamp with joint type FLS  
M10**

This document is for informational use only and does not underly the actualization process.  
This document can not be used for advertising or other purposes unless otherwise approved by MÜPRO in advance.  
All rights reserved. Subject to change.

NOT to be distributed outside of FM Approvals and its affiliates except by CUSTOMER

# APPROVAL REPORT

**MODEL: M10 SWIFTGRIP BEAM CLAMP  
PIPE HANGER COMPONENT**

**Prepared For:**

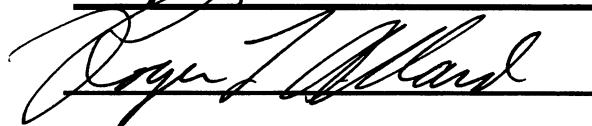
**Lindapter International  
Lindsay House, Brackenbeck Road  
Bradford, West Yorkshire BD7 2NF  
England**

**Project Identifier: 3017684**

**Class: 1951**

**Date of Approval: May 27, 2004**

**Authorized by:**

A handwritten signature in black ink, appearing to read "Roger L. Allard", written over a horizontal line.

Roger L. Allard, Assistant Vice President

FM Approvals  
1151 Boston-Providence Turnpike  
P.O. Box 9102  
Norwood, Massachusetts 02062  
USA

**MODEL: M10 SWIFTGRIP BEAM CLAMP  
PIPE HANGER COMPONENT**

**from**

**LINDAPTER INTERNATIONAL  
LINDSAY HOUSE, BRACKENBECK ROAD  
BRADFORD, WEST YORKSHIRE BD7 2NF  
ENGLAND**

**I INTRODUCTION**

- 1.1 Lindapter International requested an examination for possible FM Approval of their Model M10 Swiftgrip Beam Clamp in nominal size M10 (3/8 in.).
- 1.2 This Report may be freely reproduced only in its entirety and without modification.
- 1.3 **Standards:**

<b>Title</b>	<b>Class Number</b>	<b>Date</b>
Approval Standard for Pipe Hanger Components for Automatic Sprinkler Systems	1951, 1952 and 1953	September 2003

- 1.4 **Listings:** The product discussed in this Report will be added to the current listing for Lindapter International in the Automatic Sprinkler Systems' section of the FM Approval Guide under the heading "Pipe Hangers" as follows:

FM APPROVALS  
Project ID: 3017684

**Lindapter International Lindsay House Brackenbeck Rd Bradford West Yorkshire  
BD7 2NF England**

<b>Product Designation</b>	<b>Hanger Rod Size, mm</b>	<b>Component Description</b>	<b>For Nominal Pipe Sizes, in.</b>
10122	10 through 20	Type F3 Flange Clamp	3/4 through 6
10115	10 through 20	"	3/4 through 6
10096	10 through 20	Single Boss Split Pipe Ring	3/4 through 6
FL 2, (Malleable Iron)	10	Type FL Flange Clamp	3/4 through 4
FL 2, (Stainless Steel)	10	Type FL Flange Clamp	3/4 through 4
FL 3	12	"	5 through 8
M10 FLS	10	Swivel Beam Clamp	3/4 through 4
M10 Swiftgrip	10	Beam Clamp	3/4 through 4
3/8 FL S	3/8	Swivel Beam Clamp	3/4 through 4
SH	10	Loop hanger	1 through 4
SH	12	"	5 through 6
SH	16	"	8
TC	10	Toggle Clamp	3/4 through 4
Z	10	Z Beam Clamp	3/4 through 3

## **II DESCRIPTION**

The M10 Swiftgrip beam clamp discussed in this Report is available in Hypress 26 and QSTE 420, both of which are 2.0 mil thick steel with zinc plating. Stainless steel in Grade 316, 2.0 mil thick is also available.

## **III EXAMINATION AND TESTS**

- 3.1 Samples of the beam clamp were tested to determine its holding power. A straight pull was conducted on the beam clamp, which is the conventional method of test on beam clamps. Satisfactory results are indicated in Appendix I.
- 3.2 Based on the design of this beam clamp and the tests conducted for this Approval, no additional tests were deemed necessary. The results are considered satisfactory.
- 3.3 Due to the similarity of the stainless steel and carbon steel beam clamp, testing of the stainless steel was not deemed necessary.

## **IV MARKING**

The following pertinent information is identified on the beam clamp:

LINDAPTER  
< FM >  
SWIFT 10

**V REMARKS**

- 5.1 Approval is limited to the specific product described in this Report. Other products listed in the manufacturer's data sheets, drawings, or other information is not covered by this Approval examination.
- 5.2 The manufacturer's recommendations for placement and installation must be followed at all times.

**VI FACILITIES AND PROCEDURES AUDIT**

- 6.1 The beam clamps discussed in this Report are Approved when manufactured at the following location. This site has been audited, and is included in the FM Approvals Facilities and Procedures Audit program.

Lindapter International  
Lindsay House, Brackenbeck Rd  
Bradford, West Yorkshire BD7 2NF  
England

- 6.2 This manufacturing site is subject to follow-up audit inspections. The facilities and quality control procedures in place have been found to be satisfactory to manufacture product identical to that examined and tested as described in this Report.

**VII MANUFACTURER'S RESPONSIBILITIES**

- 7.1 Documentation considered critical to this Approval is on file at FM Approvals and listed in the Documentation File, Section VIII of this Report. No changes of any nature shall be implemented unless notice of the proposed change has been given and written authorization obtained from FM Approvals. The Approved Product Revision Report, Form 797, shall be forwarded to FM Approvals as notice of proposed changes.
- 7.2 This beam clamp is Approved when installed according to the manufacturer's installation instructions.

## VIII DOCUMENTATION

The following drawings describe the beam clamps and are filed under Project ID: 3017684.

<b>Drawing Number</b>	<b>Revision</b>	<b>Description</b>
LTSD - 2490	10	Swiftgrip Swift 10 Flat Pattern
LSTD - 2491	4	Swiftgrip SWIFT 10 Bend Details
LSTD - 2493	3	Swiftgrip SWIFT 10 Jaw Stiffener
LTSD - 2496	2	Swiftgrip SWIFT 10 Finished Dimensions
LTSD - 2497	2	Swiftgrip – Swift 10 Marking Details
LSTD - 2506	1	Swiftgrip SWIFT 10 Anti-vibration Serrations
LTSD - 2509	1	Swiftgrip SWIFT 10 Assembly of two parts
LSTD - 2510	1	Swiftgrip SWIFT 10 Clamp secured to beam

**IX CONCLUSION**

The M10 Swiftgrip beam clamp described in Section 1.4 meets FM Approval requirements. Since a duly signed Master Agreement is on file for this manufacturer, Approval is effective the date of this Report.

**TESTS AND EXAMINATION BY:** Lindapter personnel and J. W. Normington

**EXTERNAL TESTS WITNESSED BY:** P. J. Conroy

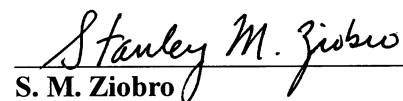
**ATTACHED:** APPENDIX

**PROJECT DATA RECORD:** P.I. 3017684

**ORIGINAL TEST DATA:** P.I. 3017684

**REPORT BY:** **REVIEWED BY:**

  
\_\_\_\_\_  
P. J. Conroy  
Engineer - Hydraulics Group

  
\_\_\_\_\_  
S. M. Ziobro  
Technical Team Manager - Hydraulics Group

FM APPROVALS  
Project ID: 3017684

APPENDIX  
Lindapter International

Test No.	Rod Size (in.)	Maximum Pipe Size (in.)	Minimum Required Load (Test load)		Maximum Attained Load	
			Lbf.	(N)	Lbf	(N)
Test Material: Hypress 26						
1	3/8"	4	1,475	6560	2,840	12,630
2	3/8"	4	1,475	6560	2,240	9,960
3	3/8"	4	1,475	6560	2,885	12,830
4	3/8"	4	1,475	6560	2,200	9,780
5	3/8"	4	1,475	6560	2,530	11,250
Test Material: QSTE 420						
1	3/8"	4	1,475	6560	3,305	14,700
2	3/8"	4	1,475	6560	3,305	14,700
3	3/8"	4	1,475	6560	3,305	14,700