

# Certificate of Constancy of Performance

This is to certify that:

National Fire Fighting  
Manufacturing Co Ltd  
Plot No. S10201  
Jebel Ali Free Zone South  
PO Box 17014  
Dubai  
United Arab Emirates

Holds Certificate Number:

0086 CPR 504938

In respect of:

**EN 671-1:2012 - Fixed firefighting systems - Hose systems - Part 1: Hose reels with semi-rigid hose**

In compliance with Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the above construction product. This certificate attests that all the provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the above standard(s) under system 1 are applied and that the product fulfils (products fulfil) all the prescribed requirements set out above. This certificate remains valid as long as the test methods and/or factory production control requirements included in the harmonised standard(s), used to assess the performance of the declared essential characteristics, do not change and the products(s), and the manufacturing conditions in the plants(s) are not modified significantly.

For and on behalf of BSI, a Notified  
Body for the above Regulation  
(Notified Body Number 0086):

  
Chris Lewis - Certification Director, Product Certification

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Page: 1 of 7

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## EN 671-1:2012 - Fixed firefighting systems - Hose systems – Part 1: Hose reels with semi-rigid hose

Model	Description
19 NFH 020 - <b>XXXX</b>	19mm, Swinging Arm Type
19 NFH 030 - <b>XXXX</b>	19mm, Swinging Pipe Type
19 NFH 040 - <b>XXXX</b>	19mm, Fixed Type
25 NFH 020 - <b>XXXX</b>	25mm, Swinging Arm Type
25 NFH 030 - <b>XXXX</b>	25mm, Swinging Pipe Type
25 NFH 040 - <b>XXXX</b>	25mm, Fixed Type
25 NKFH 020 - <b>XXXX</b>	25mm, Swinging Arm Type

Where **XXXX** represents as follows:

- M** – Manual Valve
- A** – Automatic Valve
- B** – Brass Chrome Plated Nozzle
- SS** – Stainless Steel Discs (Mirror or Brush Finish)

The Hose Reels are fitted with plastic nozzle and Red painted carbon Steel Discs as standard unless the model number includes the suffix B - Brass Chrome Plated Nozzle and / or SS - Stainless Steel Discs.

- Plastic Nozzle Diameter: 6mm
- Brass Nozzle Diameter: 7mm
- Hose Inside Diameter: ¾" (19mm) & 1"(25mm)
- Hose length: 30m
- Nozzle Type: Conical & Sheet Spray Pattern
- Carbon Steel Disc: Model NFH – 550mm & 580mm diameter, Model NKFH – 620mm
- Stainless Steel Discs: Model NFH only – 550mm

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Page: 2 of 7

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**EN 671-1:2012 - Fixed firefighting systems — Hose systems – Part 1: Hose reels with semi-rigid hose**

## Appendix I

Essential characteristics	Clause	Performance
<b>DISTRIBUTION OF EXTINGUISHING MEDIA</b>		
Hose Bore	4.2.1	19mm $\pm$ 1.0mm - Pass 25mm $\pm$ 1.0mm - Pass
Minimum flow rate	4.2.2	41Ltr/min@6 Bar (6mm Plastic Nozzle) 53Ltr/min@6 Bar (7mm Brass Chrome Plated Nozzle)
Effective throw range	4.2.3	Jet discharge > 10mtr@2 Bar - Pass
Spray Discharge	4.2.4	Sheet spray - 90° - Pass conical spray - 45° - Pass
<b>OPERATIONAL RELIABILITY</b>		
Reel – Construction	4.3.3	Diameter of the wheels 550 & 580mm with CS and 200mm Drum - Pass Diameter of the wheels 550mm SS and 200 Drum - Pass Diameter of wheels 620mm and 200mm Drum - Pass
Reel – Rotating	4.3.4	3000 rotation at the rate of 30r/min. - Pass
Reel – Swinging	4.3.5	1000 times from 0° to max. swing at the rate of 1swing/4 Sec. - Pass
Reel – Resistance to impact	4.3.6	25Kg 125mm Diameter Mass applied on two reel wheels from the height 300mm - Pass
Reel – Resistance to load	4.3.6	75Kg mass fitted to the hose 500mm from the reel outlet for 5min – Pass
Hose – General	4.3.1	Hose specification comply to EN 694 requirement - Pass
Shut-off Nozzle - General	4.3.2	Nozzle with conical and sheet spray pattern in vertical orientation at the height of 1550mm@0.6MPa - Pass
Shut-off Nozzle - Resistance to impact	4.3.7	Nozzle ( Hose reel Pressurized with 12Bar ) dropped freely from the height of 1500mm for 5 times - Pass
Shut-off Nozzle - Operating torque	4.3.8	Nozzle operating torque @12Bar Pressure Measured - Pass
Inlet stop valve - General	4.3.9	Inlet stop valve fitted with Hose Reel
Inlet stop valve - Manual inlet stop valve models	4.3.10	Manual Stop Valve closed by hand wheel in a clock wise direction
Inlet stop valve - Automatic Inlet stop valve models	4.3.11	Open/close in 3 revolution - Pass
Hydraulic Properties - Resistance to internal pressure	4.3.12	Pressurized to 18Bar in 60Sec., holding time 300Sec. and pressure releasing with in 10Sec. the same cycle verified the leak for 2 more times - Pass
Hydraulic Properties - Strength	4.3.13	Hose Reel Pressurized to 30Bar for 60Sec. - Pass

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Page: 3 of 7

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**EN 671-1:2012 - Fixed firefighting systems — Hose systems – Part 1: Hose reels with semi-rigid hose**

## Appendix I (continued)

Essential characteristics	Clause	Performance
<b>ABILITY TO PULL OUT THE HOSE</b>		
Reel - Unwinding load	4.4.1	Unwinding load for Hose Reel (Start to rotation of the reel, maximum force to start rotation and maximum force to pull out the entire Hose) - Pass
Reel - Dynamic breaking	4.4.2	Dynamic breaking verified and found rotation of the reel stops within one revolution - Pass
Hose - Maximum length	4.4.3	30Mtr - pass
<b>DURABILITY OF OPERATIONAL RELIABILITY</b>		
Resistance to corrosion of coated parts	4.8.1	Pass
Resistance to corrosion of waterways	4.8.2	Pass
Ageing tests for plastics materials	4.8.3	Pass

First Issued: 2006-02-17

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Page: 4 of 7

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Approval Documentation forming part of this certification: **Technical File Review 9717157 dated 01/04/2019**

Drawing No.	Rev./ Issue No.	Date	Title
NF/HR/19-MC/ASSY/07	1	03/03/2016	BILL OF MATERIALS
NF/HR/19-MC/RN/ASSY/07	1	03/03/2016	BILL OF MATERIALS
NF/HR/25-MS/ASSY/07	1	01/03/2007	BILL OF MATERIALS
NF/HR/25-MS/RN/ASSY/07	1	01/03/2007	BILL OF MATERIALS
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Page: 5 of 7

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NF/25NKFH020MB/ASSY/19	0	06/01/2019	BILL OF MATERIALS
NF/25NKFH020M/ASSY/19	0	06/01/2019	BILL OF MATERIALS
NF/25NKFH020AB/ASSY/19	0	06/01/2019	BILL OF MATERIALS
NF/25NKFH020A/ASSY/19	0	06/01/2019	BILL OF MATERIALS

**BSI Test Reports:** 285/4322419/3 of 6, 2244/7764721, 285/4322419/5 of 6, 8651268a, 2381/7756368, 8651268b, 285/4321419/6 of 6, 285/4937776, 2244/8435228, 8249325, 285/4322419/4 of 6 and 2400/9682735

First Issued: 2006-02-17

Latest Issue: 2019-04-23

Page: 6 of 7

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## Manufacturing Plant

National Fire Fighting  
Manufacturing Co Ltd  
Plot No. S10201  
Jebel Ali Free Zone South  
PO Box 17014  
Dubai  
United Arab Emirates

## Certified Activities

EN 671-1:2012 - Fixed firefighting systems - Hose systems -  
Part 1: Hose reels with semi-rigid hose



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Page: 7 of 7

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