

Certificate of Product Approval

Certificate Number: 1468Aa

Issue: 01

Shield Fire, Safety & Security Ltd

Unit 3 Endeavour Drive
Basildon
Essex
SS14 3WF
United Kingdom

is certified by BRE Global Ltd. and is authorised to use the LPCB mark in association with the product(s) listed in this certificate and appendix having complied with the requirement(s) of the standards as detailed below:

Products

SHIELD Flexible Sprinkler Connectors
(Refer to attached appendix for details)

Standards

LPS 1261: Issue 03 draft
Requirements for Testing Flexible Hoses for Sprinkler Systems

This certificate and appendix is maintained and held in force through regular surveillance activities

S. A. Colwell

Signed for BRE Global Ltd.

Sarah Colwell

Verifier

25 August 2022

Date of Issue

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Date of First Issue



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Appendix to Certificate No: 1468Aa Shield Fire, Safety & Security Ltd

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SHIELD SDF-B (Braided) Flexible Sprinkler Connectors to LPS 1261: Issue 03 draft

Product Name	Length (mm)	Nominal Size/Connection Supply	Nominal Size/Connection Outlet	Maximum Working Pressure (bar)	LPCB Ref. No.
SHIELD SDF-B700	700	1" BSPT / NPT 1 1/4" BSPT / NPT External thread	1/2" BSPT / NPT 3/4" BSPT / NPT Internal thread	14	1468Aa/01
SHIELD SDF-B1000	1000	1" BSPT / NPT 1 1/4" BSPT / NPT External thread	1/2" BSPT / NPT 3/4" BSPT / NPT Internal thread	14	1468Aa/01
SHIELD SDF-B1200	1200	1" BSPT / NPT 1 1/4" BSPT / NPT External thread	1/2" BSPT / NPT 3/4" BSPT / NPT Internal thread	14	1468Aa/01
SHIELD SDF-B1500	1500	1" BSPT / NPT 1 1/4" BSPT / NPT External thread	1/2" BSPT / NPT 3/4" BSPT / NPT Internal thread	14	1468Aa/01
SHIELD SDF-B1800	1800	1" BSPT / NPT 1 1/4" BSPT / NPT External thread	1/2" BSPT / NPT 3/4" BSPT / NPT Internal thread	14	1468Aa/01

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SHIELD SDF-N (Unbraided) Flexible Sprinkler Connectors to LPS 1261: Issue 03 draft

Product Name	Length (mm)	Nominal Size/Connection Supply	Nominal Size/Connection Outlet	Maximum Working Pressure (bar)	LPCB Ref. No.
SHIELD SDF-N700	700	1" BSPT / NPT 1¼" BSPT / NPT External thread	½" BSPT / NPT ¾" BSPT / NPT Internal thread	14	1468Aa/02
SHIELD SDF-N1000	1000	1" BSPT / NPT 1¼" BSPT / NPT External thread	½" BSPT / NPT ¾" BSPT / NPT Internal thread	14	1468Aa/02
SHIELD SDF-N1200	1200	1" BSPT / NPT 1¼" BSPT / NPT External thread	½" BSPT / NPT ¾" BSPT / NPT Internal thread	14	1468Aa/02
SHIELD SDF-N1500	1500	1" BSPT / NPT 1¼" BSPT / NPT External thread	½" BSPT / NPT ¾" BSPT / NPT Internal thread	14	1468Aa/02
SHIELD SDF-N1800	1800	1" BSPT / NPT 1¼" BSPT / NPT External thread	½" BSPT / NPT ¾" BSPT / NPT Internal thread	14	1468Aa/02

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Notes for SHIELD SDF-B (Braided) & SDF-N (Unbraided) Flexible Sprinkler Connectors:

These flexible sprinkler connectors may be used in applications where little or no differential movement between the two ends is expected after installation (e.g., supply to single sprinklers in suspended ceilings).

1. SHIELD SDF-B (braided) & SDF-N (unbraided) flexible sprinkler connectors are approved for use in the following applications:

Assembly length (mm)	Pre-calculated		Fully hydraulically calculated
	Town's mains	Pumped	
700*	Yes	Yes	Yes
Up to 1500**	No	Yes	Yes
Up to 1800**	No	No	Yes

Table 1 – Without 'L1' or 'L2' 90° elbow reducer – see notes

Assembly length (mm)	Pre-calculated		Fully hydraulically calculated
	Town's mains	Pumped	
700***	No	Yes	Yes
Up to 1800****	No	No	Yes

Table 2 – With 'L1' or 'L2' 90° elbow reducer – see notes

Pipework supplying SHIELD flexible sprinkler connector assemblies in pre-calculated systems shall be sized as distribution mains. The above applications apply to SHIELD flexible sprinkler connectors with:

- * up to 2 x 90° bends, with a straight or 'L' type 90° elbow reducer
- ** up to 3 x 90° bends, with a straight or 'L' type 90° elbow reducer
- *** up to 2 x 90° bends, with a 'L1' or 'L2' type 90° elbow reducer
- **** up to 3 x 90° bends, with a 'L1' or 'L2' type 90° elbow reducer

2. In suspended ceilings SHIELD SDF-B & SDF-N flexible sprinkler connectors must be installed in accordance with the SHIELD Design, Installation and Maintenance Manual OM/SDF-SD/08/2022, Rev.00, date 24.08.2022.
3. In suspended ceilings the outlet reducer must be secured to the ceiling support system with brackets supplied. For other applications, the installer must supply brackets to ensure the sprinkler is secure.

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