



## Type Approval Certificate

*This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.*

This certificate is issued to:

**PRODUCER** Wolf Safety Lamp Company Ltd

**PLACE OF PRODUCTION** Saxon Road Works  
Sheffield, S8 0YA  
United Kingdom (UK)

**DESCRIPTION** Primary Cell Powered Safety Torch/Flashlight

**TYPE** Wolf ATEX  
TR-40 / TR-45

**APPLICATION** TR-40: Zone 1 and Zone 2 of potentially explosive gas, vapour and mist atmospheres and Zone 21 and Zone 22 of potentially explosive dust atmospheres in the marine and offshore industries.

TR-45: Zone 0, 1 and 2 of potentially explosive gas, vapour and mist atmospheres in the marine and offshore industries.

**SPECIFIED STANDARDS** EN 60079-0: 2004 EN 50020: 2002  
EN 61241-0: 2004 EN 61241-1: 2004

### RATING

Model	Code	Ambient Temperature	Bulb
TR-40	II 2 GD Ex ib IIC T4/T3 tD A21 IP67 T85° C	- 20° C to + 40° C	High Power LED: 1.5 W
TR-45	II 1 G Ex ia IIC T4/T3 IP67	- 20° C to + 40° C	High Power LED: 1.5 W

**OTHER CONDITIONS** Torch to be opened only in non-hazardous (safe) areas.

**Certificate No.** 08/00037

**Issue Date** 23 August 2008

**Expiry Date** 22 August 2013

**Sheet** 1 of 2

M.H.A. Rufaie  
London Design Support Services  
Lloyd's Register EMEA

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*"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid certificate."*

*The Design Appraisal Document No.08/00037 and its supplementary Type Approval Terms and Conditions form part of this Certificate.*

**Certificate No.** 08/00037  
**Issue Date** 23 August 2008  
**Expiry Date** 22 August 2013  
**Sheet** 2 of 2

A handwritten signature in black ink, appearing to read "M. H.A. Ruffaie".

M.H.A. Ruffaie  
London Design Support Services  
Lloyd's Register EMEA

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**Part 1B****Subject: Electrical Equipment (Not Environmentally Tested)****Product: Safety Apparatus (Part 1B)**

Producer/Licence No.	Description of Product				Cert. No.
	Type	Details of Approval	Application	Remarks	
Wolf Safety Lamp Company Ltd, Saxon Road Works, Sheffield, S8 0YA, United Kingdom (UK).	Wolf ATEX TR-40 / TR-45	Primary Cell Powered Safety Torch/Flashlight	<u>TR-40</u> Zone 1 and Zone 2 of potentially explosive gas, vapour and mist atmospheres and Zone 21 and Zone 22 of potentially explosive dust atmospheres in the marine and offshore industries.	Expires: 23 August 2013	08/00037
		<u>TR-40</u> Code: II 2 GD Ex ib IIC T4/T3 tD A21 IP67 T85° C Ambient Temperature: - 20° C to + 40° C Bulb: High Power LED, 1.5 W  <u>TR-45</u> Code: II 1 G Ex ia IIC T4/T3 IP67 Ambient Temperature: - 20° C to + 40° C Bulb: High Power LED, 1.5 W  Torch to be opened only in non-hazardous (safe) areas.	<u>TR-45</u> Zone 0, 1 and 2 of potentially explosive gas, vapour and mist atmospheres in the marine and offshore industries.	Complies with: EN 60079-0: 2004 EN 50020: 2002 EN 61241-0: 2004 EN 61241-1: 2004	

23 AUG 2008  
M.H.