

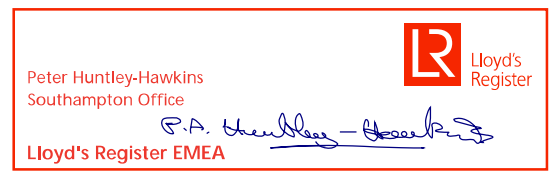
Type Approval Certificate Extension

This is to certify that Certificate No. 08/ 00037(E1) for the undernoted products is extended and renumbered as shown.

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 TS-30, TR-30, TS-35, TR-35TR-40 & TR-45. A suffix Letter/ number/ symbol may be added
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 industry. TR-45: Zone 0,1 and Zone 2 of potentially explosive gas, vapour and mist atmospheres and Zone 20 dust atmosphere in the marine industry. TS-30 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 industry TR-30 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 industry

Certificate No.	08/ 00037(E2)
Issue Date	17 February 2016
Expiry Date	22 August 2018
Sheet	1 of 3



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Marine Technology & Engineering Services, Southampton
Lloyd's Register EMEA

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TS-35 Zone 0, Zone 1 and Zone 2 of potentially explosive gas, vapour and mist atmospheres and Zone 20, Zone 21 and Zone 22 of potentially explosive dust atmospheres in the marine industry

TR-35 Zone 0, Zone 1 and Zone 2 of potentially explosive gas, vapour and mist atmospheres and Zone 0, Zone 21 and Zone 22 of potentially explosive dust atmospheres in the marine industry

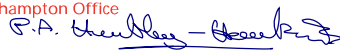
SPECIFIED STANDARDS EN-60079-0:2012: + A 11:2013
EN-60079-11:2012

Model	Code	Bulb
TR-40	I M2/ II2GD Ex ib I Mb/ IIC T3/ T4 Gb (-20°C/ -40°C ≤ Tamb ≤ +40°C) Ex ib IIIB T200°C Db IP67	High Power LED:1.4W
TR-45	I M1/ II 1GD Ex ia I Ma/ IIC T3/ T4 Ga (-20°C/ -40°C ≤ Tamb ≤ +40°C) Ex ia IIIB T200°C Da IP67	High Power LED:1.4W
TS-30	IM2/ II2GD Ex ib I Mb/ IIC T4 Gb -20°C ≤ Ta ≤ 40/ 55°C Ex ib IIIB T130°C Db IP67	High Power LED Module
TR-30	IM2/ II2GD Ex ib I Mb/ IIC T4 Gb -30°C ≤ Ta ≤ 40/ 55°C Ex ib IIIB T130°C Db IP67	High Power LED Module
TS-35	IM1/ II2GD Ex ia I Ma/ IIC T4 Ga -20°C ≤ Ta ≤ 40/ 55°C Ex ia IIIB T130°C Da IP67	High Power LED Module
TR-35	IM1/ II2GD Ex ia I Ma/ IIC T4 Ga -30°C ≤ Ta ≤ 40/ 55°C Ex ia IIIB T130°C IP67	High Power LED Module

OTHER CONDITIONS Torch to be opened only in non-hazardous (safe) areas
Dust layers must not be prevented from building up on equipment
The equipment must not be left energised and unattended in zone 20 areas

Fit specific Primary cells / batteries for above rating in accordance with Baseefa Certificate Number Baseefa07A TEX0091X Issue4

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Peter Huntley-Hawkins
Southampton Office

Lloyd's Register EMEA
LR031.1.2013.12

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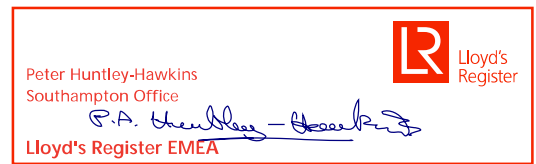
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"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order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

The attached Design Appraisal Document No. 08/00037(E2) and its supplementary Type Approval Terms and Conditions form part of this Certificate

All other details remain as the previous Certificate No. 08/00037(E1) to which this extension should be attached.

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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		
<p>Wolfe ATEX</p> <p>TR-40 TR-30 TS-35</p> <p>Wolf Safety Lamp Company Ltd, Saxon Road Works, Sheffield, S8 0YA, United Kingdom (UK).</p>	<p>Primary cell powered safety torch/ flashlight</p> <p><u>TR-40</u> <u>Code:</u> IM2/ II2GD Ex ib I Mb/ IIC T3/ T4 Gb (-20°C/ -40°Cs Tamb +40°C) Ex ib IIIB T200°C Db IP67</p> <p><u>Bulb:</u> High power LED 1.4W</p> <p><u>TR-45</u> <u>Code:</u> IM 1/ II 1GD Ex ia I Ma/ IIC T3/ T4 Ga (-20°C/ -40°Cs Tamb +40°C) Ex ia IIIB T200°C Da IP67</p> <p><u>Bulb:</u> High power LED 1.4W</p> <p><u>TS-30</u> <u>Code:</u> IM2/ II2GD Ex ib I Mb/ IIC T4 Gb -20°Cs Tas40/ 55°C, Ex ib IIIB T130°C Db IP67</p> <p><u>Bulb:</u> High power LED Module</p> <p><u>TR-30</u> <u>Code:</u> IM2/ II2GD Ex ib I Mb/ IIC T4 Gb -30°Cs Tas40/ 55°C, Ex ib IIIB T130°C Db IP67</p> <p><u>Bulb:</u> High power LED Module</p> <p><u>TS-35</u> <u>Code:</u> IM 1/ II2GD Ex ia I Ma/ IIC T4 Ga -20°Cs Tas40/ 55°C, Ex ia IIIB T130°C Da IP67</p> <p><u>TR-35</u> <u>Code:</u> IM 1/ II2GD Ex ia I Ma/ IIC T4 Ga -30°Cs Tas40/ 55°C, Ex ia IIIB T130°C Da IP67</p> <p><u>Bulb:</u> High power LED Module</p>	<p>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 industry</p> <p>TR-45: Zone 0, 1 and Zone 2 of potentially explosive gas, vapour and mist atmospheres and Zone 20 dust atmosphere in the marine industry</p> <p>TS-30, TR-30 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 industry</p> <p>TS-35, TR-35 Zone 0, Zone 1 and Zone 2 of potentially explosive gas, vapour and mist atmospheres and Zone 20, Zone 21 and Zone 22 of potentially explosive dust atmospheres in the marine industry</p>	<p>Expires: 22 August 2018</p> <p>Complies with: EN-60079-0:2012+A 11:2013 EN-60079-11:2012</p> <p>Equipment Primary Cell/ Battery options in accordance with Basseefa Certificate Number Basseefa07A TEX0091X Issue 4 dated 15 July 2015</p>	08/ 00037(E2)	

P.A. Handberg - Approved

17 February 2016