DNV·GL

Certificate No:
TAF00000DJ

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Protective Clothing

with type designation(s)
Firefighter's outfit: Helmets, Dräger HPS 4300 Type A and Dräger HPS 4500 Type A

Issued to
Dräger Safety AG & Co. KGaA
Lübeck, Germany

is found to comply with
DNV GL rules for classification – Ships
DNV GL offshore standards
DNV GL statutory interpretations DNVGL-SI-0364 – SOLAS interpretations

Application :

Product(s) approved by this certificate is/are accepted for use on all vessels classed by DNV GL.

This Certificate is valid until **2021-09-01**.

Issued at **Hamburg** on **2016-09-02**

for **DNV GL**

DNV GL local station: **Hamburg**

Approval Engineer: **John Alan Walton**

Antje Fleischhauer
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

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Job Id: **262.1-023063-1**
Certificate No: **TAF00000DJ**

Product description

Firefighter's helmets Dräger 4300 Type A and Dräger 4500 Type A with the following optional equipment:
- Visor
- Neck guard
- Communication devices and fixtures
- Torches and fixtures
- Accessories for technical rescue

The helmets are provided with a photo luminescent painting and reflective strips. Other shell colours are white, red, black and bright yellow.

Helmet size ranges:
H2: 48 to 61 cm
H3: 56 to 64 cm

Application/Limitation

Protection of the head at fire fighting, rescue and salvage operations.
The helmet complies with the following optional requirements of EN 443:2008
- suitable for use at extremely low temperatures (-40°),
- resistant to increased radiant heat up to 14kW/m²
- electrical conditions E2 and E3

Type Approval documentation

Test Report Nos. 6498 A/09 dated 2009-01-26; 6777.1 A dated 2009-08-25; 6670 A/09 dated 2009-05-29 and 8209.1 A/15 dated 2015-06-08 issued by DEKRA EXAM GmbH Essen, Germany.

Tests carried out

EN 443:2008

Marking of product

The markings are to be in accordance with EN 443:2008 Para 8.
The product or its packing shall as a minimum be marked with the company's name, trade mark and the same type designations as given in the TA certificate for traceability. The marking shall be permanent and unique.

Periodical assessment

DNV GL's surveyor is to be given permission to perform Periodical Assessments at any time during the validity of this certificate and at least every second year. The arrangement is to be in accordance with procedure described in Class Programme DNVGL-CP-0338, Section 4.