

Memo

Documentation requirements according to Norwegian technical building regulations (TEK) and regulations on documentation of construction products (DOK)

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Prevent Systems v/Erling Mengshoel

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PROJECT NO / FILE CODE

20657

DATE

27.10.2023

CLASSIFICATION

Restricted

Summary

It is concluded that the water mist nozzles mentioned in this memo in Table 1 satisfy the Norwegian requirements for documentation of products for construction works (DOK) and technical regulations (TEK). Areas of use are defined in the individual test protocols.

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1 of 3



Documentation

The requirements for documentation concerning the products mentioned in Table 1 are taken from the Norwegian Building Authority with references to:

The Norwegian building code (TEK17):

- Chapter 2 - Documentation for meeting requirements
 - § 2-3. Documentation for performance requirements. Production guidelines
 - § 2-4. Documentation of the execution
- Chapter 3 - Documentation of construction products
 - § 3-1. Documentation of building materials for construction works

Regulations for documentation of construction products:

- Chapter III - Requirements for construction products that are not CE marked
 - § 12. Assessment and verification of building products' performance

An overview of nozzles with associated documentation can be seen in Table 1. All tests have been carried out at accredited laboratories according to ISO/IEC 17025 and the fire tests would satisfy the requirements set down in EN 14972-1:2020 "*Fixed firefighting systems - water mist systems - Part 1: Design, installation, inspection and maintenance*". Annex A "*Guideline for developing representative fire test protocols for water mist systems*".

Table-1 Water mist nozzles with an overview of completed tests

Water mist nozzle/Product	Performing laboratory	Type of report	Test protocol	Date of performance
Prev2exp	LPCB	Component tests	LPCB product approval	21.04.2016
	Sintef NBL (now RISE)	Fire test	IMO 265 Public space	04.01.2010
Prev2up	LPCB	Component tests	LPCB product approval	21.04.2016
	SP (now RISE)	Fire test	CEN test protocol parking, V1	11.01.2013
Prev3exp	LPCB	Component tests	LPCB product approval	21.04.2016
	BRE Global	Fire test	DD BS 8458, INSTA 900-3	10.03.2011
	BRE Global	Fire test	DD BS 8458, INSTA 900-3	15.03.2013
Prev3con	BRE Global	Component tests	TS 14972-2	23.12.2014
	BRE Global	Component tests	DD BS 8663-1	12.06.2019
	BRE Global	Component tests	DD BS 8663-1	01.08.2019

	BRE Global	Fire test	DD BS 8458, INSTA 900-3	10.03.2011
	BRE Global	Fire test	DD BS 8458, INSTA 900-3	15.03.2013
Prev4sw	BRE Global	Fire test	BS 9252	23.08.2011
	BRE Global	Fire test	BS 9252	08.06.2011
Prev5exp	LPCB	Component tests	LPCB product approval	21.04.2016
	BRE Global	Fire test	DD BS 8489-7, cat. 3	23.04.2014
	BRE Global	Fire test	BS 8489-7, cat. 3	19.01.2017
Prev5exp20	BRE Global	Fire test	BS 8458, INSTA 900-3	10.05.2017
	BRE Global	Fire test	BS 8489-7, cat. 3, Cl. 7.7	23.07.2018

References:

- LPCB – Certificate of Product Approval (Certificate number: 1360a) issue 2, 2016-04-21
- BRE – Test report – TS14972-2 (CEN/TC 191/WG 5TG 3 document N 281) (288867), 2014-12
- SINTEF – Test Report - IMO MSC/Circ. 265 Public Space (NBL 107492-A), 2010-01-04
- SP – Test report – Underground Car Parks OH2 (PX26439-2), 2013-01-11
- BRE – Test report - BS DD 8458-1:2010 Annex A (266829), 2011-03-10
- BRE – Test report - BS DD 8458-1:2010 Annex A (285062), 2013-03-15
- BRE – Test report – Testing of the Prevent Systems AS, Model Prev3con, 15mm concealed automatic water mist nozzle (P114125-1001 Issue: 1) 2019-06-12
- BRE – Test report – Testing of the Prevent Systems AS, Model Prev3con, 15mm concealed, automatic water mist nozzle (P114125-1002 Issue: 1) 2019-08-02
- BRE – Test report - Prevent Systems AS residential sidewall water mist fire tests BS 9252 / DD 8458-1 (269754), 2011-08-23
- BRE – Test report – Category III (Clauses 6.7, 6.8 and 6.9) DD 8489-7:2011, 2014-04-23
- BRE – Test report – Assessment report for Prevent low pressure water mist system tested to 8489-7 (P106045-1001 Issue: 1), 2017-01-19
- BRE – Test report – Fire tests to Annex C of BS 8458 with prevent low pressure water mist system incorporating Prev5exp20 nozzles (P107196-1000 Issue:1, 2017-05-10
- BRE – Test report – Fire test to BS 8489-7 Category III Clause 7.7 with a Prevent low pressure water mist system incorporating Prev5exp20 nozzles (P112892-1000A Issue:1) 2018-07-23
- NS-EN 14972-1:2020 Faste brannsløkkesystemer – Vanntåkesystemer. Annex A Guideline for developing representative fire test protocols for water mist systems

Verification

Transaction 09222115557503548324

Document

Memo - Documentation requirements according to TEK and DOC

Main document

3 pages

Initiated on 2023-10-27 10:05:52 CEST (+0200) by Max Gribble (MG)

Finalised on 2023-10-27 12:50:59 CEST (+0200)

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