

## BRE Global Test Report

**Fire tests to BS 8489-7 with a low pressure water mist system  
incorporating Telesto DGWP-49 nozzles**

**Prepared for:** Telesto Sp. Z o.o.  
**Date:** 21 July 2016  
**Report Number:** P101834-1001 Issue: 1

BRE Global Ltd  
Watford, Herts  
WD25 9XX

Customer Services 0333 321 8811

From outside the UK:  
T + 44 (0) 1923 664000  
F + 44 (0) 1923 664010  
E [enquiries@bre.co.uk](mailto:enquiries@bre.co.uk)  
[www.bre.co.uk](http://www.bre.co.uk)

Prepared for:  
Telesto Sp. Z o.o.  
Ludwinowska 17  
02-856 Warszawa  
Poland



### 3.4 Conclusion

The water mist system, as detailed in this report, when tested in accordance with clauses 7.7, 7.8 and 7.9 of BS 8489-7:2016 'Fixed fire protection systems – Industrial and commercial watermist systems – Part 7: Tests and requirements for watermist systems for the protection of low hazard occupancies', and assessed against the pass/fail criteria specified in clause 8 (f) and (g) of the standard achieved the results as shown in Table 11.

<b>BS 8489-7 Pass/fail criteria</b>	<b>Test 1 Clause 8 g)</b>	<b>Test 2 Clause 8 g)</b>	<b>Test 3 Clause 8 f)</b>
The maximum gas temperature in the centre of the ceiling, 76 mm below the ceiling does not exceed 80 °C, for a duration longer than 3 minutes for the 30 minute system discharge.	n/a	n/a	Criteria met
The maximum gas temperature over ignition, 76 mm below the ceiling does not exceed 80 °C, for a duration longer than 3 minutes for the 30 minute system discharge.	Criteria met	Criteria met	n/a
After 5 minutes (from the start of system operation or ignition of both wood cribs, whichever takes the longer) the mean ceiling temperatures remain steady or decrease until the end of the test.	Criteria met	Criteria met	Criteria met
Damage to the plywood walls does not extend to the full height at the ends of the walls.	Criteria met	Criteria met	Criteria met
Damage to the foam and box files does not extend to all areas.	Criteria met	Criteria met	Criteria met

**Table 11 – Summary of BS 8489-7 criteria for the test programme**