

Testing low-pressure water mist system for protection of wood board presses

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Abstract

This paper describes the testing of new low-pressure water mist system for the protection of fibre board presses. This application is characterised by a particular fire risk resulting from hot surfaces and large amount of combustible materials. Additionally hydraulic presses are the core parts of factories producing fibre boards. The protection of such important material assets represents a challenge. This paper introduces low-pressure water mist system, manufactured by Grecon Germany, for protecting these risks.

The paper will focus for the full scale fire tests carried out by IFAB. The test concept was developed by involved parties including VdS. The paper discusses challenges from the fire testing point of view. Additionally the test set-up is described. The fire tests showed very positive results for the tested low-pressure water mist system and that all pass / fail criteria were successfully passed. A summary of the results will be presented in the paper.

Keywords

Wood board press, low-pressure, water mist, fire testing, VdS