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Title:

Test report for the determination of the fire resistance of six air transfer grilles (ATG) in accordance with the Standard EN 1364-5:2017 "Fire resistance tests for non-loadbearing elements – Part 5: Air transfer grilles" and the EN 1363-1:2012 "Fire resistance tests. Part 1: General Requirements" (equivalent to the UNE EN 1363-1:2015).

**Material tested:**

Six air transfer grilles with references "BGR 100X100 -P", "BGR 400X400 -P", "BGR 800X600 -P", "BGR 800X600 +P", "BGR 400X400 +P" and "BGR 100X100 +P" supplied by Promat S.p.A.

File number: 18/16632-424-1

The content of this report is the same as the one in report 18/16632-424. The only change is the reference of the sponsor.

Sponsor:

BROFER S.r.l.
Via Roma 66
31023 Resana
Italy

Report date:

November 29th 2018

Date of the test:

March 06th 2018



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This document consists of 82 pages from which 64 are annexes.

7. SUMMARY OF THE PERFORMANCE OF THE SAMPLES

The air transfer grilles provided by Promat S.p.A and tested in accordance with the Standard EN 1364-5:2017, have shown the following performance:

Sample	Reference	Pressure (+/-)	Integrity (min) (Fire exposure)	Thermal insulation (min) (fire exposure)
A	"BGR 100X100 -P"	-	120	120
B	"BGR 400X400 -P"	-	120	120
C	"BGR 800X600 -P"	-	78	77
D	"BGR 800X600 +P"	+	103	63
E	"BGR 400X400 +P"	+	120	71
F	"BGR 100X100 +P"	+	120	112

8. FIELD OF APPLICATION

8.1 General

The results of the fire test are directly applicable to constructions of the same design and materials where one or more of the changes listed below are made:

- Decrease in the linear dimensions of the grille;
- Decrease of the pitch of the fixings;
- Grilles without decorative cover are not permitted.

8.2 Orientation

The results are only applicable to vertical orientation.

8.3 Position

The pressures tested shall cover the maximum levels for intended applications.

ATG (sample A, sample B and sample C) tested in vertical construction and under negative pressure can be installed in vertical constructions with the grilles top height less than 1.5 m above notional floor level.

ATG (sample D, sample E and sample F) tested in vertical constructions and under positive pressure can be installed in vertical constructions with the grilles bottom equal to or more than 1.5 m above the notional floor level.

8.4 Number

The number of ATG mounted in multiple arrangements may be decreased but shall not be increased from the tested configuration.

