

Fire resistance according to EN 1364-1:1999 and ETAG 026-4, of a ventilation grill type Firemax EW 90 ZR

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On behalf of Duco Ventilation & Sun Control in Veurne, Belgium the fire resistance is determined of a ventilation grill type FireMax EW 90 ZR.

The test has been performed according to EN 1364-1:1999. Details and results are given in Efectis report 2013-Efectis-R0148a dated March 2014.

Some data of the investigated construction is summarized below:

Wall

- Wall construction built from aerated concrete blocks, thickness 70 mm
- Dimensions wall: 1500 x 1500 mm (w x h)
- Clear openings 800 x 85 mm (w x h)
- Dimensions ventilation grills 795 x 165 x 80 mm (l x w x h)

Criterion	Time of reaching a criterion measured from the start of the test.	
Integrity (E)	100	No failure
Insulation (I)		
▪ Max. temperature rise	4	Failure
The heating was terminated after 100 minutes in consulting with the client.		

Classification according to EN 13501-2:2007+A1: 2009

Efectis classification report 2014-Efectis-R0148b dated March 2014, shows that in compliance with the conditions and direct field of application below a classification is given of: **E90 and EW90**.

Conditions and direct field of application

- The conclusion is only valid for DUCO fire resistant ventilation grills, type FireMax EW 90 ZR, which are in detail equal to the construction described in the applicable report.
- The results of the fire test are directly applicable to similar constructions where one or more of the changes listed below are made and the construction continues to comply with the appropriate design code for its stiffness and stability. Other changes are not permitted.
- The maximum dimensions of the ventilation grill are 795 x 165 x 80 mm (l x w x h)
- The result is applicable to any other supporting construction, within the same type (rigid), with a thickness of at least 70 mm and a density of at least 625 kg/m³.
- The ventilation grill is tested in both directions, the ventilation grill is applicable to situations both with fire from the inside, as from the outside.