

product	Firetect® Air grill
description	fire rated air transfer grille
intended use	service closure for air transfer services, to form a penetration seal in case of fire to reinstate the fire resistance of fire compartments
certification	tested acc. EN 1364-5 + classified acc. EN 13501-2

constructive element ¹⁾	
fire rated walls acc. EN 1363-1	<ul style="list-style-type: none"> - flexible wall ≥100mm; metal or timber studs, plaster board type A + wall insulation - rigid wall ≥100mm: blockwork/concrete/masonry, density ≥ 600 kg/m³ - rigid wall ≥150mm: blockwork/concrete/masonry, density ≥ 600 kg/m³
fire rated floors acc. EN 1363-1	<ul style="list-style-type: none"> - rigid floor ≥150mm: (aerated) concrete, density ≥ 600 kg/m³
¹⁾ constructive element must be classified acc. EN 13501-2 for the required fire resistance period	

fire resistance			
field of application:	acc. EN 13501-2 / 1364-5		
EI 60 up to EI 120: Air grill	air transfer grilles:	walls	floors
- ventilation grills	≤ 600x600mm	EI 60	EI 120

directions for use	
important	<ul style="list-style-type: none"> - application must follow TDS - constructive element must be classified acc. EN 13501-2 for the required fire resistance period
equipment	caulking gun
surface preparation	<ul style="list-style-type: none"> - ensure that service elements are firmly anchored with constructive elements on either side - the penetration opening must be clean, dry and degreased; remove any debris and dust - with uneven surfaces and small gaps, <u>first</u> seal with Acrylic or PA sealer to improve smoke seal efficiency
application	<p>air transfer services</p> <ul style="list-style-type: none"> - position grill centrally in constructive element if required, install a temporary support construction for fixation - mount by applying Acrylic sealant joint detail: width x air grill thickness
note	max. aperture size = nominal size grill + max. 10mm

additional product info	Firetect® is a registered brand of KLF
charts field of application:	© KLF Building Products
- air control	disclaimer
Consult firetect.eu/download for updated versions; product development + fire tests are ongoing processes at KLF. Contact KLF for other EI requirements and (non)standard or complex site requirements; mail info@klf.nl	

specifications

Firetect® Air grill

material	air transfer grill with fire retardant fillers
colour	dark grey
fire resistance	EI 60 up to EI 120, depending on application and configuration



tested acc.	EN 1364-5
classified acc.	EN 13501-2

environmental performance

release of dangerous substances	none: non-formaldehyde, non-asbestos
use category	Z ₂ , internal use
application conditions	between +5 °C and +30 °C, max. 70% RH
expansion pressure	0.9 up to 1.5N/mm ²
pressure loss	see below
packaging	per 1 piece in carton
storage	store dry, between +5 °C and +30 °C, max. 70% RH, avoid condensation and UV
shelf life	infinite, if stored acc. instructions
activation temperature	approx. +110 °C
flash point	not applicable

available sizes

standard size, in mm	nominal: 400x400mm + 600x600mm; actual sizes are approx. 3mm smaller
standard thickness	40 + 50 + 60 mm
position of profiles upon request	straight or angled (non-vision) other square or circular sizes and other colours

pressure loss	height	width	area	free area	pressure	pressure
	nom. mm	nom. mm	m ²	in %	2 Pa	10 Pa
200x100	200	100	0,02	55	75	150
300x100	300	100	0,03	57	100	225
400x100	400	100	0,04	57	150	300
300x200	300	200	0,06	60	225	475
400x200	400	200	0,08	60	300	650
500x200	500	200	0,10	61	375	800
300x300	300	300	0,09	61	325	700
400x300	400	300	0,12	62	450	950
500x300	500	300	0,15	62	550	1100
400x400	400	400	0,16	62	650	1350
500x400	500	400	0,20	62	900	1900
600x400	600	400	0,24	63	1350	2800
500x500	500	500	0,25	63	1500	3000
600x500	600	500	0,30	63	1900	3800
600x600	600	600	0,36	63	2500	5200

limitations	- do not use in humid conditions
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transport & storage	- during transport: keep dry; do not stack pallets - store dry; best kept in cool, dark conditions - store on level ground; do not stack pallets - HS code: 28391900
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health & safety	- no specific restrictions - work according to health & safety Directive and use appropriate PPE - this product is classified as not dangerous under Regulation 1272/2008 and is in compliance with CLP regulations
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