Fire stop high strength fast curing structural compound

FIRE STOP COMPOUND

B270

FOR LOAD-BEARING & NON LOAD-BEARING MULTIPLE- SERVICE PENETRATIONS

Nullifire B270 is a single part gypsum based compound providing up to 4 hours fire resistance. B270 is designed to re-instate the fire resistance of the compartment wall or floor, whilst providing an unsupported load-bearing capacity up to 2.5kN/m² (UDL), up to a 1800mm span, in accordance with BS 6399-1:1996 minimum requirements. This system also provides thermal, acoustic and air sealing performance.

Key features

- Up to 4 hours fire resistance
- Up to 2.5kN/m² (UDL), unsupported
- Easy, fast installation
- Load-bearing seal up to 1800mm effective span by any length
- Quick setting
- Zero shrinkage
- Easily re-penetrable
- Suitable for walls and floors
- Resistant to mould, fungus and vermin attack
- Offers effective support to dampers/ductwork



Mixing ratios

Compound to water ratio

Pourable grade	3:1
Trowel grade	4:1

Specification

Colour	Off white
Bag quantity	20kg dry
Density (wet cast)	1750-1900kg/m ³
Load-bearing	2.5kN/m ² UDL
Max. unsupported span	1800mm
Flexural strength	5.2N/mm ²
Compressive strength	17N/mm ²
Thermal conductivity	0.2W/mk

For seals with a span greater than 1800mm, or UDL in excess of $2.5 kN/m^2$, please refer to our technical services department for design support.

Material requirement

Quantity of dry compound required (per m²)

Thickness of seal	50mm	75mm	100mm
Quantity	2	Б	6

Product overview

Typical applications

- Health and leisure centres
- Schools, universities and other educational buildings
- Hospitals
- Industrial, power generation plants

Permissible services

- Single and bunched cables
- Cable trays
- Cable ladders
- Trunking
- Blank openings
- Unsupported multiple ducting/damper penetrations
- Metallic pipes
- Plastic pipes*

*With use of B300/B150/B600

Typical substrates

- Masonry wall/floor
- Service risers

Testing and certification

Fire performance

- Tested in accordance with PrEN 1366-3 and BS 476-Pt20
- Up to 4 hours fire resistance
- ASTM with UL listing
- FM Approval
- Acoustic performance
- Tested in accordance with BS ISO 140-3

Technical support

Please refer to our MSDS and technical application data sheets for further details. For guidance on applications outside this scope, contact our technical department.

Excludes area of any penetrating services

(bags)

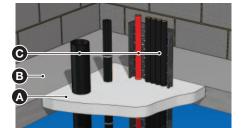


Installation guidance Fire performance

Refer to B220 page 22.

Application types

Horizontal - Multiple services

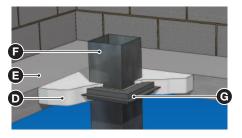


B270 Compound A

Floor slab B

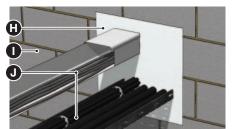
Multiple services С

Horizontal/vertical - HVAC duct and damper



- **D** B270 Compound
- Floor slab
- B Steel duct
- G HVAC damper and expansion frame

Vertical – Multiple services



B270 Compound

Masonry wall O

Multiple services J

Service type	Integrity (mins)	Insulation (mins)	
Masonry wall/floor	Maximum unsupported span 1800mm any length		
Blank seal	240	240	
25mm steel pipe	240	180	
42mm steel pipe	240	90	
60.3mm steel pipe	240	30	
108mm steel pipe	240	30	
Cable tray 3 x 35mm cables	240	30	
Cable tray 19 x 13mm & 1 x 55mm cables	60	30	
Multiple dampers 500mm x 400mm	240	240	
Multiple dampers 600mm x 575mm	240	120	

Structural performance

Code of practice for dead and imposed loads in buildings provided by BS 6399-1:1996

Example of use	Uniformly distributed load (kN/m²)	Concentrated load (kN)
Work rooms (light industrial) without storage	2.5	1.8
Offices general use	2.5	2.7
Kitchens, laundries, laboratories	3	4.5
Mainframe computer rooms	3.5	4.5
Machinery halls	4	4.5
Factories, workshops (general industrial)	5	4.5

Nullifire B270 High Strength Structural Grade Compound, is capable of providing a structural seal to comply with 'Work Rooms (Light industrial traffic)' requirement, without the need for internal structural supports.

Product range

Produc	Description	Colour	Diameter (mm)	Item No.
B270	Structural Fire Stop Compound	Off white	20kg	350639

Associated products

Product	Description	Page No.
B150	Fire Stop Pipe Collar	48
B300	Fire Stop Pipe Wrap	50
B760	Fire Stop Seal Bags	16