



GUARDIAN INSULATION SOLUTIONS

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GUARDIAN 4 FIRE CLOSERS FIRE RATED

GIS fire rated non-combustible insulated cavity closers are the economical way to achieve building regulations compliance and one hour fire integrity when closing cavities around window and door openings. **GIS** provides a highly versatile solution in second fix installation when a frame former is not required. It can be used with all types of door and window openings. It was tested at Warrington Fire Research and was found to be in accordance with BS476 Cert 20 1987. It provides 60 minutes fire integrity and up to 60 minutes fire insulation. The product is primarily designed for second fix applications and can be simply cut to length and push fitted into the cavity after the window or door opening has been made thus eliminating the need for cut blocks, bricks or special reveal blocks. It is available in a range of sizes to fit cavity widths from 50mm to 150mm, with sufficient design flexibility to tolerate rogue cavity widths, thus reducing time and cost on site.

PROFILE

White non water-absorbing PVCu.

INSULATION

Weather resistant polythene with encapsulated 140kg/m³

INSTALLATION

GIS fire rated non-combustible insulated cavity closers is suitable for use with all window and door frame materials, including timber, PVCu and aluminium. It is cut to the height or width of the cavity opening and then push fitted into the cavity (above). Slight cavity width variations can be overcome by applying small pressure. For this purpose a margin of insulating material projects from the PVCu encasement to allow a firm friction fit. In cases of extreme cavity width variation, this projecting insulation can be trimmed on site with a knife to allow insertion into the cavity.

Specification	
Fire Rated	Yes
Check Reveal Available	Yes
Frame Former Available	No
1st Fix	No
2nd Fix	Yes
Min Cavity Width	50mm
Max Cavity Width	150mm
Lengths	2.4m
Thermal Conductivity (K Value)	0.035
Thermal Resistance (R Value)	0.714
Features	
Easy to install	
Weather resistant	
Reduces risk of condensation . Mould & moisture migration across the cavity	
Overcomes cavity width variations	
No Ties required - simply nail to blocks	
Can be used on timber frame constructions	
Economical	
Complies with new Part L Building Regulations	
Up to One Hour fire integrity	
Sustainability	
GWP (Complete Product)	<5
ODP	Zero
Green Guide	B





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GUARDIAN 4 FIRE

GUARDIAN 4 THERMAL

GUARDIAN 4 ACOUSTICS

GWP LEVELS LESS THAN 5, ODP AND GREEN

GUIDE A+

GIS fire rated non-combustible insulated cavity closers offer different insulation materials with option of GWP levels of <5, ODP levels and Green Guide ratings of A+.

BREEAM (AND CODE FOR SUSTAINABLE HOMES)

BRE has advised that insulated cavity closers as a product do not gain Green Guide credits, since they do not enhance BREEAM scheme categories.

BUILDING REGULATIONS COMPLIANCE

Building regulation (Part L) compliance is important. The path of minimum thermal resistance through the closer must be at least 0.45 m²k/W, which GIS closers achieve.

COLD BRIDGING

The problems of cold bridging are recognised in the Part L Building regulation 2010 and Scottish Building Regulations 2004. **GIS** fire rated non-combustible insulated cavity closers are used to overcome thermal loss that occurs around unprotected cavities and reveals. Thermal loss can result in problems of condensation, staining and mould growth at the reveals of these openings. Prolonged exposure to such factors will lead to a deterioration of the internal plaster and paint work. The use of **GIS** cavity closers will help to prevent the occurrence of such factors.

HEATH & SAFETY

GIS has an approved health & Safety policy and is committed to working and supplying products safely. A **GIS** COSHH data sheet is available on request.

ENVIRONMENT

GIS's closer insulation has no CFC's, HCFC's in the manufacturing process and represents no known threat to the environment. **GIS's** cavity insulation has a low impact on the environment and is classified as zero ODP and zero GWP.

STORAGE & PACKAGING

GIS's closers are supplied in polythene sleeves that are designed for transporting and protecting the products. It is not recommended that the packs stored in direct sunlight. When storing the cavity closers for longer periods of time it is recommended the product should be stored indoors or under cover.

Guardian Insulation Solutions have a policy of continual development of products to maintain their relevance to current and changing regulations, therefore the data given is for guidance only. Any test results shown may vary dependent upon site conditions. Guardian Insulations Solutions accept no responsibility for suitability to application. Guardian Insulation Solutions accept no responsibility for the design or application of their products. Guardian Insulation Solutions: 8th December 2015

