

VULCON

DOR CAV

Product Brochure



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INTRODUCTION

The Vulcon Dor Cav is a groundbreaking GRP structural cavity closer that stands as the first structurally rated solution to support insulation and screed over a cavity wall, specifically beneath an external door opening. This innovative product addresses the shortcomings of previous methods, which often led to complications in providing structural support for insulation and screed over the cavity opening together with breaches in thermal and damp bridging through the cavity.

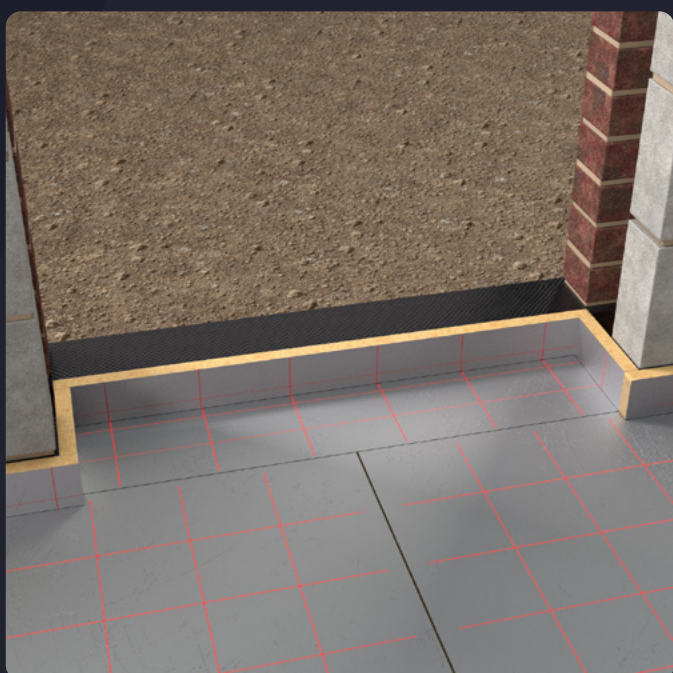
The Dor Cav is patent protected, ensuring the uniqueness and exclusivity of its design. Compliant with EN 1991-1-1 2002 Eurocode 1 actions on structures and rigorously tested according to British and EU regulation standards BS EN 13706, this cavity closer is manufactured to the highest standards. Our manufacturing holds certifications for both ISO9001 (Quality Management) and ISO14001 (Environmental Management), guaranteeing its quality and adherence to environmental best practices.

The significance of the Dor Cav extends beyond its structural prowess. With the recent changes to Part L of the Building Regulations in December 2021, emphasising the need for airtight and energy-efficient homes to meet the UK's Net Zero targets, this product emerges as a key contributor to achieving these goals by avoiding cold bridging.

The choice of Glass Reinforced Plastic as the primary material for the Dor Cav offers a range of advantages. GRP's unique properties, including high strength, low weight, non-corrosiveness and minimal maintenance requirements, make it a versatile composite material with applications surpassing traditional materials like concrete and steel.

The Dor Cav represents a cutting-edge solution that not only addresses structural and thermal challenges in cavity walls, but also aligns with broader sustainability goals, advancing construction methods towards greater efficiency and environmental responsibility.

TYPICAL APPLICATION DETAIL



PRODUCT SIZES / CODES

PRODUCT	CODE			
	DC09	900mm length	275mm width	3mm thickness
	DC12	1200mm length	275mm width	3mm thickness

Multiple units can be abutted next to one another for larger doors, for example a door opening of 2400mm would require 2 x 1200mm Dor Cav.



CASE STUDIES AND TESTIMONIES



After having the Vulcon Dor Cav presented to myself and my design team we straight away understood the product and saw how this would overcome a problem on site we encounter with this specific detail. We have installed them on 7 new homes we are currently building in Kent with great feedback from our on-site team and will look to use on our future projects.

Chris Hammond (Director), Beau Property



The Dor Cav was recommended by my ground works team after seeing it being used on another development. We've previously had to fill the cavity with concrete wrapped in membrane which was slow and a fiddly process to achieve correct levels without allowing potential damp through the wall. The Dor Cav was quick and easy to install and we will continue to use this product due to its ease and speed of installation plus the added benefit of no cold bridging through the walls.

Jason Siggs (Director), J Siggs Construction



APPLICATION AND LIMITATIONS

- > The Dor Cav must be used under insulation and screed at all times and is not designed to be used at finished floor level.
- > The Dor Cav is for cavity opening widths of 50-150mm.
- > The Dor Cav must have a minimum insulation thickness of 75mm on top of it, no maximum thickness required.
- > The Dor Cav must have a minimum screed thickness above the insulation of 40mm, with no maximum thickness requirement.
- > The Dor Cav is designed to be used on domestic application only with standard domestic floor and wall loading as set out in EN 1991-1-1 2002 Eurocode 1 actions on structures.
- > The Dor Cav is designed to be used at ground floor level only.



PACKAGING

Vulcon Dor Cav is supplied in recyclable polythene. Polythene packaging should not be considered adequate for outdoor protection.

Vulcon Dor Cav may be supplied on timber pallets with large quantity orders.

STORAGE

Vulcon Dor Cav to be stored flat, directly out of sunlight and in stable temperature conditions of 0-40 Degrees Celsius.

HANDLING

Care should be taken when handling, transporting and storing to prevent physical damage. To prevent distortion, they should be stored such that they are flat and should not be exposed to excessive heat.

Gloves should be worn when handling GRP profiles not encased in packaging due to potential splinters.

MATERIAL COMPOSITION

Glass fibre reinforcement in a cured polyester resin matrix.

HAZARDOUS MATERIALS

Please see separate MSDS document in the technical resources section on our website.

www.vulcon.co.uk/resources

HEALTH AND SAFETY

We recommend the use of PPE items such as safety goggles, safety gloves and P3 dust mask. Always check with the on-site health and safety officer for clarification on PPE requirements specific to each site.

FIRE PERFORMANCE

Dor Cav units are manufactured from glass reinforced polymer (GRP). The GRP profile has a Class 3 surface spread of flame classification.

The product is intended for installation at ground floor level within external wall constructions, including threshold applications where it supports insulation and screed across a cavity.

In service, Dor Cav is located within the sub-floor zone beneath the finished floor construction and is not exposed within occupied areas.

Dor Cav does not form part of a fire-resisting element or compartment boundary. The fire performance of the building element is determined by the surrounding structural construction.

Where required under Approved Document B, suitable cavity barriers or fire-stopping measures should be incorporated at openings and cavity junctions. Installation of Dor Cav should not compromise the continuity of required cavity barriers. Assessment of specific fire and cavity barrier requirements remains the responsibility of the project designer.

See separate data sheet in technical resources section on our website.

www.vulcon.co.uk/resources

TERMS & CONDITIONS OF SALE

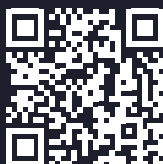
Goods are sold subject to our standard terms and conditions of sale, copies of which are available upon request. Vulcon construction solutions Ltd reserve the right to modify or extend any product range or published information without prior notice.

SUPPORT

For further technical support please contact our team on technical@vulcon.co.uk / 01892 251992.

Find out how we can help your next build

ENQUIRE



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