

## Fire & Regulatory Considerations

### DOR CAV – GROUND FLOOR THRESHOLD APPLICATIONS

Dor Cav has been developed for use at ground floor level within external wall constructions, including threshold applications where it spans between inner and outer leaves to support floor insulation and screed.

This page outlines the fire-related considerations relevant to its use within UK construction.

#### 1. PRODUCT REACTION TO FIRE

Dor Cav units are manufactured from glass reinforced polymer (GRP).

The GRP profile has been tested in accordance with **BS 476-7** and achieved a **Class 3 surface spread of flame classification**.

GRP is a combustible material and should not be considered non-combustible or fire resistant. Dor Cav is not designed to provide fire resistance and must not be relied upon for this purpose.

#### 2. POSITION WITHIN THE CONSTRUCTION

In a typical installation, Dor Cav is located:

- At foundation / slab level
- Beneath the internal finished floor construction
- Below the primary wall structure above threshold level
- Within the sub-floor zone

In this configuration, the product:

- Is not exposed within occupied areas
- Does not form part of a fire-resisting wall or floor
- Does not act as a compartment boundary

Where fire resistance is required within the building, performance is provided by the surrounding masonry, structural slab and floor construction — not by Dor Cav.

#### 3. COMPARTMENTATION

Under Approved Document B (England), fire compartments are formed by fire-resisting walls and floors designed to limit the spread of fire.

Dor Cav:

- Does not form part of a compartment boundary
- Does not provide fire resistance
- Does not replace any fire-resisting construction

When installed in ground floor threshold applications, the product sits below the main wall structure and does not interrupt the compartmentation strategy of the building.

#### 4. CAVITY FIRE SPREAD CONSIDERATIONS

Building Regulations require concealed cavities to be appropriately closed or subdivided in order to restrict fire and smoke spread.

The Dor Cav threshold detail:

- Maintains continuity of masonry construction above threshold level
- Does not create a continuous vertical concealed cavity path
- Does not extend beyond inner or outer leaf alignment
- Does not replace required cavity trays or damp proof courses

Dor Cav is not intended to act as a cavity barrier.

Where cavity barriers are required at openings or cavity junctions in accordance with Approved Document B, installation of Dor Cav must not compromise the continuity or effectiveness of those barriers.

Assessment and specification of cavity barriers remain the responsibility of the project designer in accordance with the building's fire strategy.

#### 5. EXTERNAL WALL APPLICATIONS

In certain building types, including multi-occupancy or taller residential buildings, additional requirements may apply to external wall construction and materials.

Dor Cav is intended for use at ground floor level only.

Where project conditions involve:

- Compartment walls,
- Relevant buildings under Regulation 7,
- Enhanced external wall fire performance requirements,
- Buildings exceeding standard low-rise residential height,

use of Dor Cav may be considered subject to project-specific design and review.

In such cases:

- The installation should be assessed by the project architect and/or fire engineer.
- Required cavity barriers must be incorporated and remain continuous.
- The product must not compromise the building's fire strategy.

Dor Cav does not provide fire resistance and must not be relied upon as a cavity barrier or fire-stopping element.

#### 6. LIMITATIONS OF USE

Dor Cav should not be:

- Used as part of a fire-resisting element
- Relied upon to achieve fire resistance performance
- Installed in separating walls or floors above garages without project-specific assessment
- Incorporated into constructions requiring non-combustible materials without appropriate design review

Where installation falls outside standard ground floor threshold applications, consultation with the project designer or fire engineer is recommended.

#### 7. REGULATORY RESPONSIBILITY

Compliance with Building Regulations, including fire safety provisions, remains the responsibility of the building designer and principal contractor.

Dor Cav must be installed:

- In accordance with published installation guidance
- In conjunction with appropriate cavity barrier detailing
- In line with the project-specific fire strategy

#### SUMMARY

Dor Cav is a structural threshold bridging element intended for ground floor use.

When installed in accordance with the published detail, it:

- Does not form part of a compartment boundary
- Does not create a continuous concealed fire path
- Does not replace required cavity barriers
- Does not provide fire resistance

Proper integration within the overall wall and fire strategy of the building ensures compliance with applicable Building Regulations.