

CARO FLOOD DEFENCE SYSTEM

Caro VentDry™

Technical Datasheet and Installation Guide

Product at a glance

Product: Caro VentDry™

Type: Deployable flood vent cover

Components: Fixed wall frame + removable cover panel

Frame & Cover material: WCB (Waterproof Construction Board), recycled PVC-U

Standard finish: White

Standard sizes: 160 x 160mm / 210 x 210mm / 250 x 250mm

Bespoke sizing: Available on request

Deployment: Occupant-operated, no tools required

Installation: Competent person

Internal test result: Zero leakage over 48 hours (static water)

Certification target: BS 851188-1:2019+A1:2021

Gas appliance vents: Not suitable

Applications: Retrofit and new build



Caro VentDry™ is a two-part deployable flood vent cover consisting of a permanently installed wall frame and a removable cover panel that is placed by the property occupant when a flood warning is issued.

NOT SUITABLE FOR USE OVER GAS APPLIANCE VENTS.

⚠ WARNING – DANGER OF DEATH

NEVER use this vent cover on, over, in front of, or in any way that blocks, restricts or obstructs a gas vent, flue, chimney opening, combustion-air vent, or any ventilation opening required for a gas appliance. Blocking or restricting ventilation for a gas appliance may cause a build-up of carbon monoxide (CO), creating a risk of serious injury or death.

If you are unsure whether a vent is connected with, or required for, any gas appliance, DO NOT FIT OR USE THIS PRODUCT. Seek advice from a suitably qualified Gas Safe registered engineer.

Technical Specification

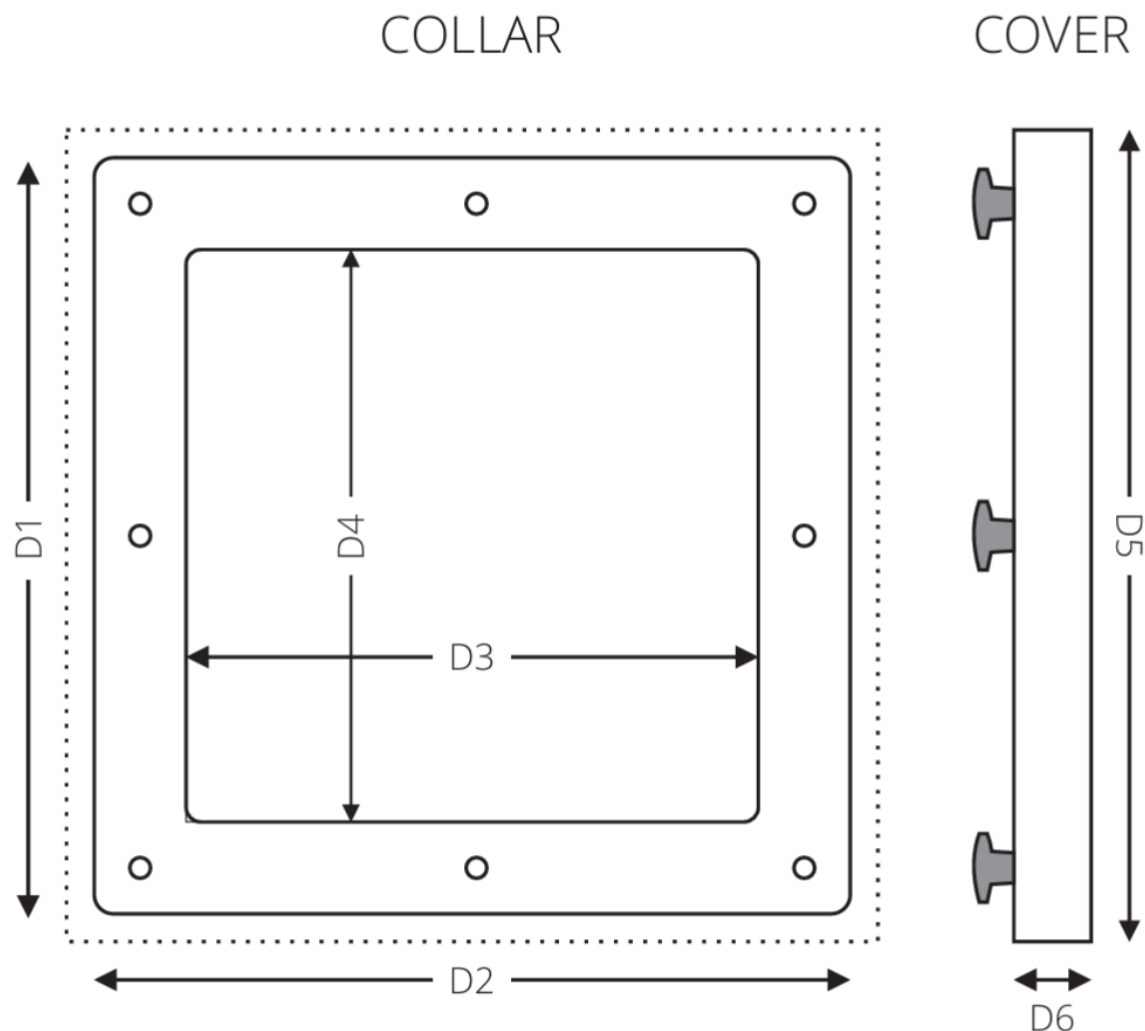
Parameter	Specification
Product name	Caro VentDry™
Product type	Deployable flood vent cover
Components	Fixed wall frame and removable cover panel
Cover material	Waterproof Construction Board (WCB), recycled PVC-U
Frame material	Waterproof Construction Board (WCB), recycled PVC-U
Standard finish	White. Alternative colours available on request.
Standard sizes	160 x 160mm, 210 x 210mm, 250 x 250mm
Installation	Competent person. See installation instructions.
Internal test result	Zero leakage after 48 hours of static water contact.
Certification target	BS 851188-1:2019+A1:2021 (formal testing to be completed)
Suitable applications	Standard airbricks, ventilation openings, subfloor vents. Retrofit and new build.
Not suitable for	Gas appliance vents
Deployment method	Occupant-operated. No tools required.

Cover and Frame Material

WCB (Waterproof Construction Board)

Property	Detail
Water resistance	100% waterproof. No water ingress, no swelling, no rotting.
Antibacterial	WCB inhibits bacteria including MRSA and E. coli
Recyclability	Fully recyclable at end of life
Chemical resistance	Resistant to a wide range of chemicals
Composition	Recycled PVC-U

Standard Sizes



	160 x 160mm	210 x 210mm	250 x 250mm
Collar	D1: 240mm D2: 240mm D3: 160mm D4: 160mm	D1: 290mm D2: 290mm D3: 210mm D4: 210mm	D1: 330mm D2: 330mm D3: 250mm D4: 250mm
Cover	D5: 282mm D6: 36mm	D5: 332mm D6: 36mm	D5: 372mm D6: 36mm

Installation Instructions

Installation of the Caro VentDry™ frame should be carried out by a competent person. Once the frame is installed it is designed to remain permanently in place.

Tools and Materials Required

Tools

- Drill
- Screwdriver
- Spirit level

Materials

- Wall plugs
- Stainless steel screws (M6, 50mm)
- Polymer adhesive (Fix All Clear recommended)
- Silicone sealant (CT1 recommended)

Phase 1: Mark and drill the fixing holes

1	Position the square frame base over the vent opening, centring the vent within the frame as closely as possible.
2	Hold the frame against the wall and check it is parallel and level.
3	Mark the top right corner fixing hole on the wall.
4	Drill the marked position using a M6 drill bit.
5	Insert a wall plug. Fit the screw and tighten finger-tight.
6	Check the frame is level against the wall both vertically and horizontally.
7	Mark the top left corner fixing hole.
8	Remove the top right screw. Drill the top left hole and insert a wall plug.
9	Re-align the frame over both top holes and mark the two bottom corner fixing holes.
10	Remove the top screws and lift the frame away from the wall.
11	Drill both bottom fixing holes using a M6 drill bit. Insert wall plugs.

Phase 2: Fix the frame

12	Apply polymer adhesive (Fix All Clear recommended) evenly across the back face of the frame.
13	Carefully insert a screw into one of the top corner positions of the frame.
14	Offer the frame up to the wall, aligning the screw with the relevant wall plug. Hand-tighten only.

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| 15 | Insert the adjacent top corner screw and hand-tighten. |
| 16 | Insert both bottom screws. |
| 17 | Tighten all four screws fully, checking throughout that the frame remains level against the wall and upright. Do not over-tighten. |

Phase 3: Seal the frame

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| 18 | Apply silicone sealant (CT1 recommended) to all outer edges of the frame where it meets the wall, and to all inner edges around the vent opening. Ensure a continuous bead with no gaps. |
| 19 | Allow the sealant to cure fully before deploying the cover panel for the first time. Refer to the sealant manufacturer's guidance for cure times. |

Phase 4: Fit the cover panel

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| 20 | Place the cover panel into the frame and secure using the fixings provided. |
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Important

- Do not over-tighten screws at any stage.
- The polymer adhesive and silicone sealant must be fully cured before the cover panel is deployed.
- Store the cover panel in an accessible location near the installed frame.
- Caro VentDry™ is not suitable for use over gas appliance vents.

Deploying Caro VentDry™

The cover panel requires no tools and can be deployed by the property occupant.

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| 1 | On receiving a flood warning, retrieve the Caro VentDry™ cover panel from storage. |
| 2 | Place the cover panel into the installed wall frame and secure the fixings. |
| 3 | Once the flood risk has passed, remove the cover panel, clean if necessary, and return to storage. |
| 4 | Full ventilation is immediately restored when the cover is removed. |