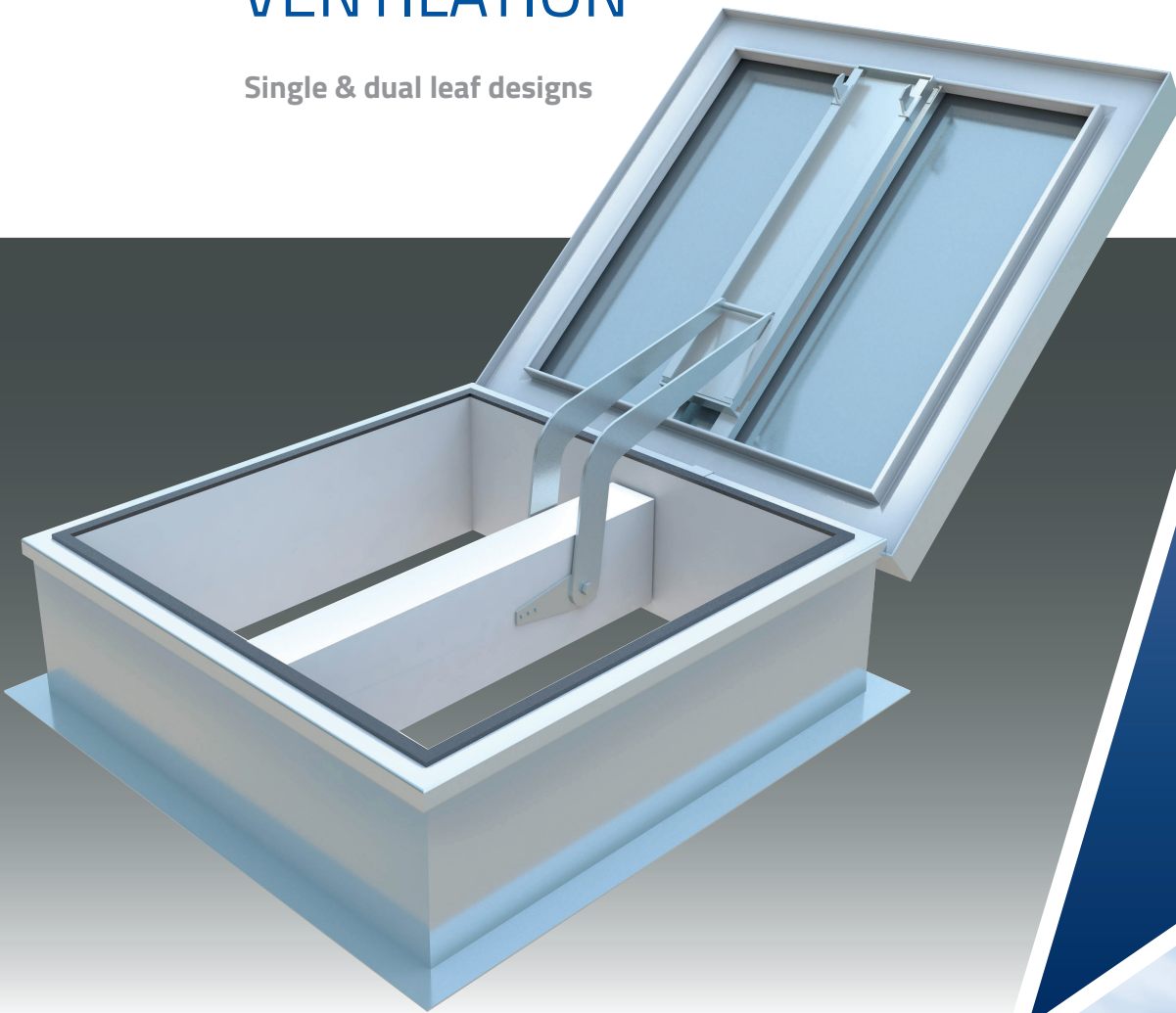


ROOF HATCHES FOR ACCESS & SMOKE VENTILATION

Single & dual leaf designs



LAREINE ROOF HATCHES

Safe, secure, dependable

Lareine Engineering offers a range of high quality Single & Dual Leaf Roof Hatches which can be supplied to specific dimensions and tailored to suit individual requirements for operation and actuation, with a wide range of options to suit different building types.

A complete range – from the experts in daylighting & ventilation

Lareine Engineering is one of the UK's leading specialists in engineered solutions for daylighting & ventilation, with a product range encompassing the design, manufacture and installation of all kinds of rooflights, natural and smoke ventilation systems and roof access solutions.

Our Roof Hatches range covers a wide variety of applications:

- Smoke Release Hatches/Automatic Opening Vents (AOV)
- Roof Access/Escape Hatches
- Dual Function Smoke Release/Access Hatches

Fully compliant designs, with a long track record of reliable performance

Manufactured at our ISO9001 accredited plant in West Lothian, Scotland, Lareine Hatches are certified to all relevant British Standards pertaining to performance and durability – and are classified as non-fragile (to meet specific design requirements).

All Lareine Hatches are supplied complete with insulated upstands, in mill finish aluminium to external surfaces with white polyester powder coat finish internally.

RAL colours can also be specified.

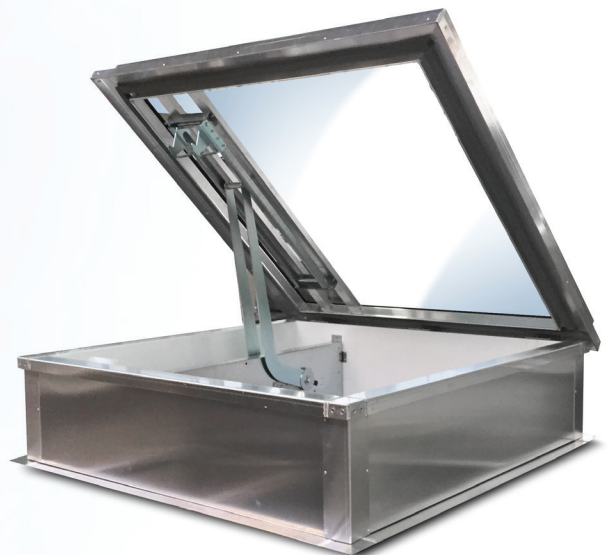
Like all Lareine Engineering designs, they offer class-leading U-values as well as excellent, fully compliant security and acoustic performance.

Lid options include: insulated aluminium; double glazed glass; clear or opal UV protected polycarbonate domes

For specifications, see page 7.

From design to installation

We can offer a full turnkey service from custom design, through manufacture to on-site installation and integration with building systems as required.

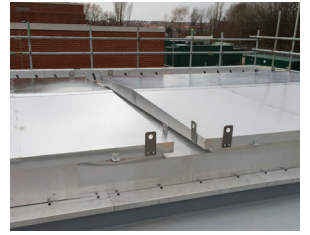




MAKING
BUILDINGS
SAFER FOR
WORKERS
AND OCCUPANTS



SINGLE & DUAL LEAF ACCESS/ESCAPE HATCHES



Lareine Access Hatches can be specified for all types of flat and low-pitch roofs. They are manufactured in our UK plant, from high grade aluminium alloy.

- Units open to 100° for easy access
- Opening assisted by gas springs or electric actuation with various control options
- Suitable for all types of flat /pitched roofs
- Supplied with keyed locks to inside, with external non-locking handles to outside which will override the internal lock to enable escape from roof level
- Lid options include: insulated aluminium; double glazed glass; clear or opal UV protected polycarbonate dome
- Standard mill finish aluminium to external surfaces, with white polyester powder coat finish internally
- RAL colours can also be specified

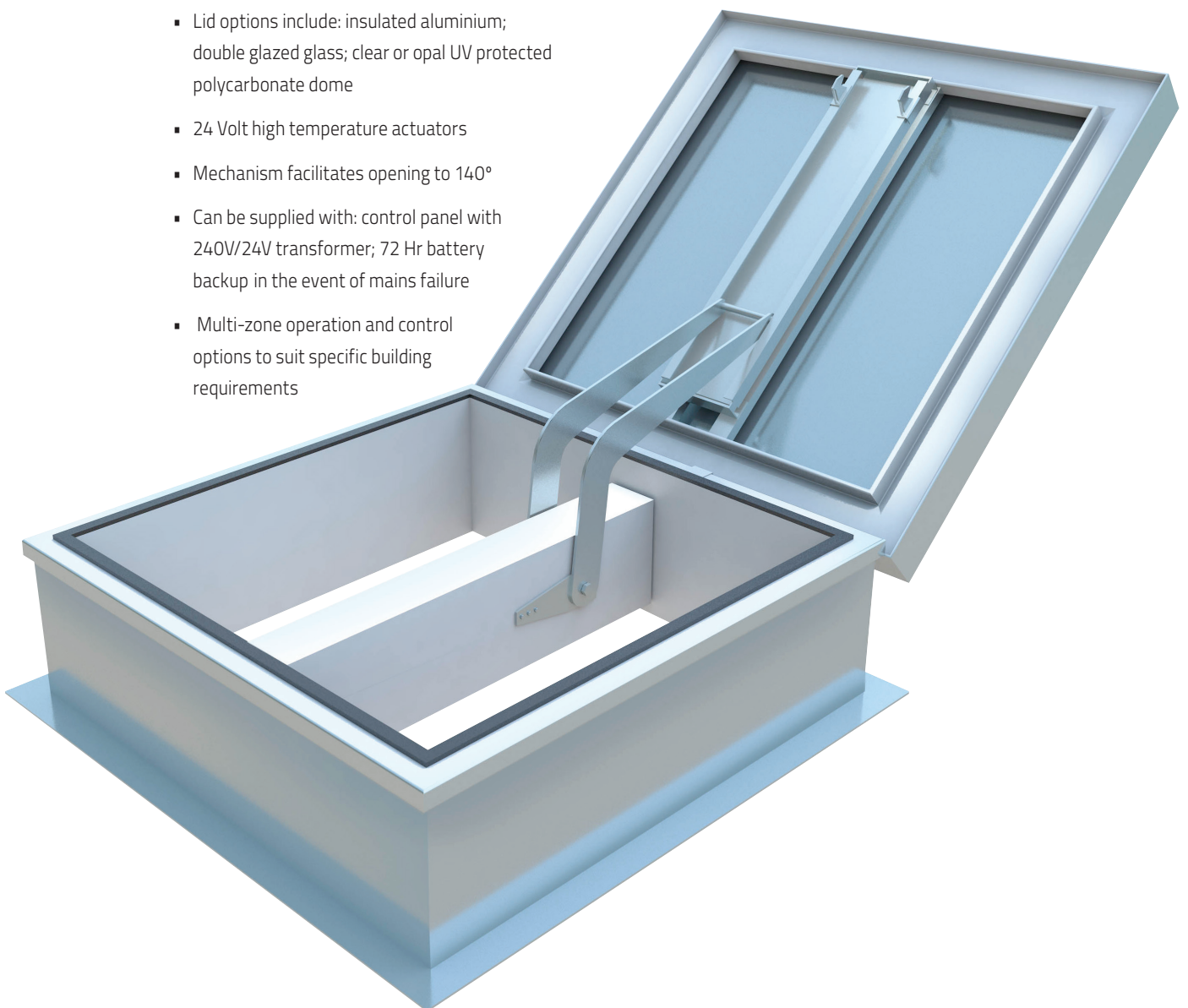


SINGLE & DUAL LEAF SMOKE RELEASE HATCHES (AOV)



Manufactured in the UK from high grade aluminium alloy, Lareine Smoke Release Hatches incorporate high quality European-made gear motor opening mechanisms, to combine excellent durability and reliable operation.

- Tested/manufactured to EN 12101-2:2003 annex ZA, which covers all performance categories under this standard
- Suitable for all types of flat /pitched roofs
- Lid options include: insulated aluminium; double glazed glass; clear or opal UV protected polycarbonate dome
- 24 Volt high temperature actuators
- Mechanism facilitates opening to 140°
- Can be supplied with: control panel with 240V/24V transformer; 72 Hr battery backup in the event of mains failure
- Multi-zone operation and control options to suit specific building requirements
- Standard mill finish aluminium to external surfaces, with white polyester powder coat finish internally
- RAL colours can also be specified

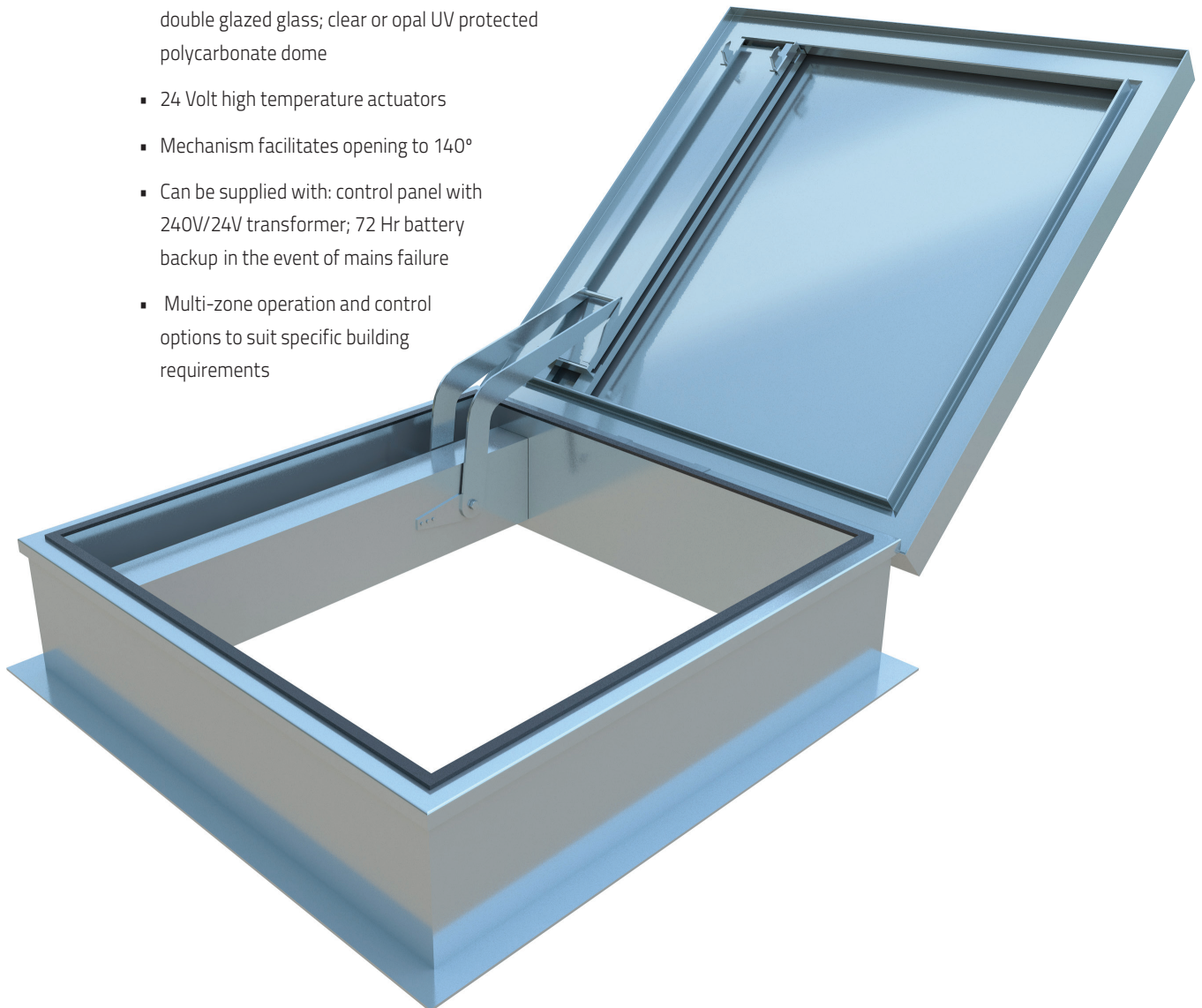


SINGLE & DUAL LEAF SMOKE RELEASE/ACCESS HATCHES



Lareine Smoke Release Hatches can be specified as dual function units for roof access. On these dual function units, the gear motor operating mechanism is positioned off-centre, to allow a larger open area.

- Tested/manufactured to EN 12101-2:2003 annex ZA, which covers all performance categories under this standard
- Suitable for all types of flat /pitched roofs
- Lid options include: insulated aluminium; double glazed glass; clear or opal UV protected polycarbonate dome
- 24 Volt high temperature actuators
- Mechanism facilitates opening to 140°
- Can be supplied with: control panel with 240V/24V transformer; 72 Hr battery backup in the event of mains failure
- Multi-zone operation and control options to suit specific building requirements
- Standard mill finish aluminium to external surfaces, with white polyester powder coat finish internally
- RAL colours can also be specified



TECHNICAL SPECIFICATIONS

Frame: Aluminium to BS 1474:1987 Alloy 6063-T6.

Finish: Mill finish to external surfaces/ polyester powder coated white to internal surfaces
RAL colours can be specified as options.

Kerb: FR 1
Lareine Engineering proprietary aluminium upstand – 350mm high for Access & Escape Hatches; 400mm high for Smoke Release Hatches with gear motor actuators. This kerb is painted white internally. The upstand is insulated externally with GRP or aluminium to suit your Roofer's requirements. Depth of upstand can be changed to suit your particular requirements.

BU 1

Lareine Engineering proprietary aluminium upstand – 200mm high for Access & Escape Hatches; 350mm high for Smoke Release Hatches with gear motor actuators. This kerb is painted white internally. The upstand is insulated externally with insulation encapsulated in aluminium. The flange width can be modified to meet your needs.

Non-fragility: Units are classified as non-fragile (to meet specific design requirements).

Certification: All units are tested/manufactured to:

- BS EN 6375-1:2009 Weather Tightness
- BS EN 1026 / 12207:2000 Air Permeability
- BS EN 1873 / 12208:2000 Water Tightness
- BS EN 12210:2000 Wind Resistance
- BS EN 1991-1 Snow Load
- BS EN ISO 140 Acoustic
- BS EN 1627-1630 Security

Smoke Release Hatches are tested/manufactured to EN 12101-2:2003 annex ZA, which covers all performance categories under this standard.

All units are classified non-fragile (to meet specific design requirements).

'U' Value: Units can be supplied with 'U' Values between 0.25 W/m²K and 0.75 W/m²K, depending on specific requirements.

Fire rating: BS 476 Part 3. Fire Rating AA. Spread of flames to BS 476 Part 7: Class 1. Class O Material to Building Regulations 1985, Tp (a) Rigid Classification as described in Approved Document B of Building Regulations.



DAYLIGHTING & VENTILATION FROM CONCEPT TO INSTALLATION

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