

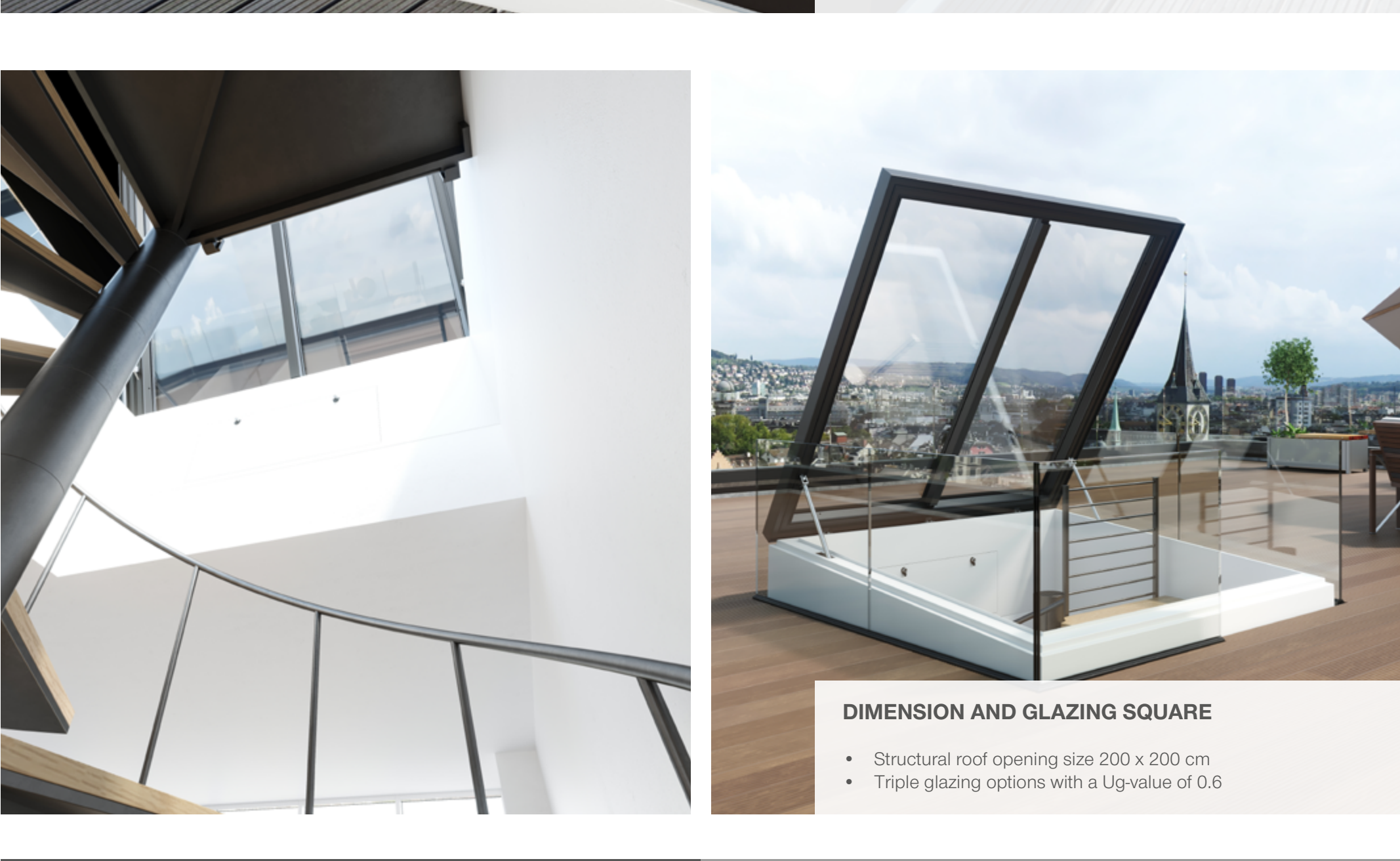


LAMILUX GENUINE GLASS FLAT ROOF ACCESS HATCHES

DAYLIGHT IN EXCLUSIVE DESIGN

In the past, flat roof access hatches were used solely to gain access for maintenance and inspection purposes. Over time, other aspects of use have been added and the demands on skylights have become much more complex. In addition to optimised thermal insulation values and proven durability, architectural demands and comfort are now the main focus. With its Flat Roof Access solutions LAMILUX offers a wide product portfolio, ranging from simple access hatches to the convenient complete package of individual glass constructions for roof terraces.

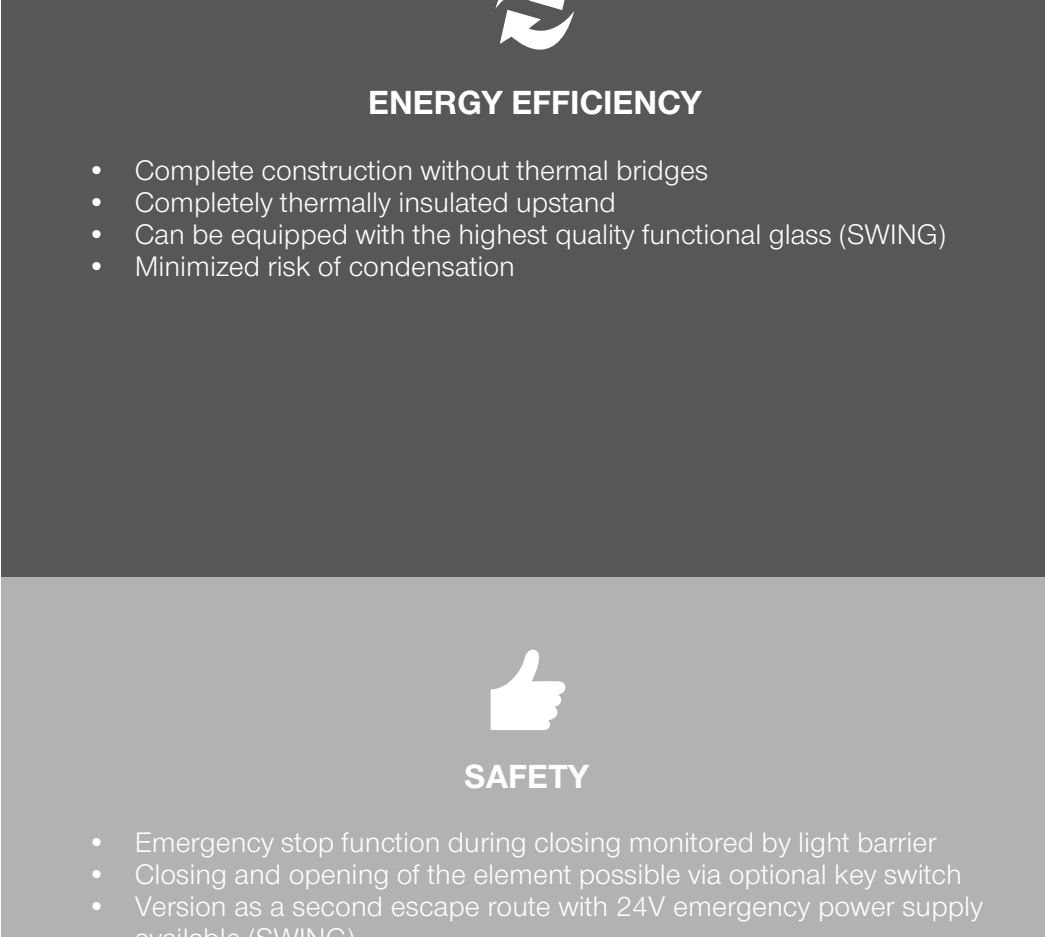
Do you certify your building according to DGNB, LEED or BREEM? We are happy to offer you professional support. With our flat roof access hatch products we, for example, achieve the highest rating in all DGNB categories. Benefit from our detailed factsheets on the most common certification systems for buildings.



FLAT ROOF ACCESS HATCH COMFORT SWING AND SQUARE

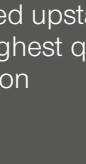
DIMENSIONS AND GLAZING SWING

- Structural roof opening size 100 x 300 cm or 100 x 350 cm
- Various triple glazing options with a Ug-value of 0.6, e.g. with heat protection glazing



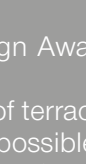
DIMENSION AND GLAZING SQUARE

- Structural roof opening size 200 x 200 cm
- Triple glazing options with a Ug-value of 0.6



ENERGY EFFICIENCY

- Complete construction without thermal bridges
- Completely thermally insulated upstand
- Can be equipped with the highest quality functional glass (SWING)
- Minimised risk of condensation



DESIGN & COMFORT

- Winner of the German Design Award 2020 in the Category Special Mention (SWING)
- Winner of the Red Dot Design Award 2021 in the Category Product Design (SQUARE)
- Convenient access to the roof terrace via on-site stairs possible (spiral staircase, platform staircase possible with SQUARE)
- Flat roof access hatch opens 84° in approx. 25 seconds (SWING), 70° in approx. 45 seconds (SQUARE)
- Folding mechanism provides more space on the roof terrace
- Self-cleaning due to inclined upstand and flat transition from frame to glazing
- Shading possible via blind system (SWING)



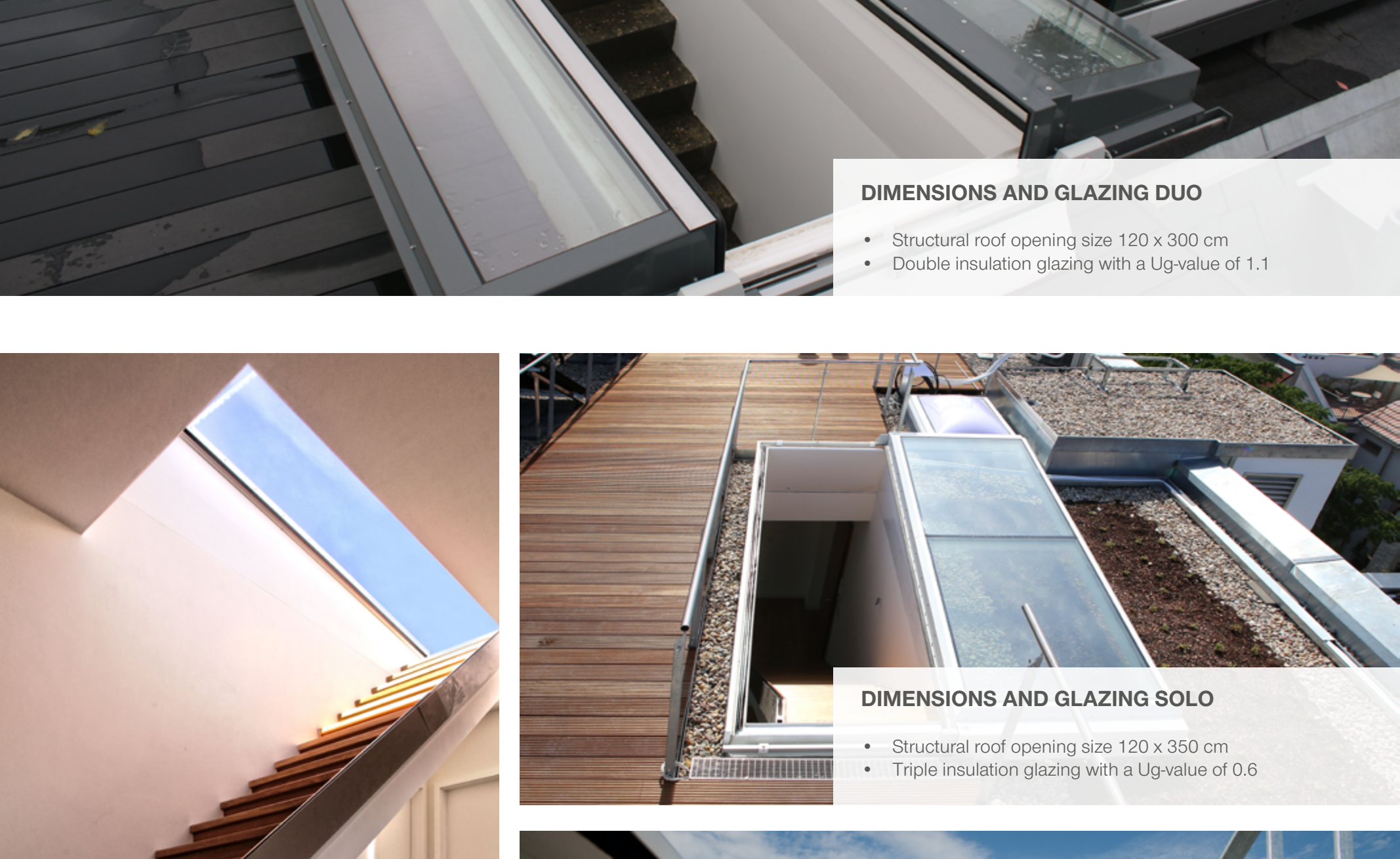
SAFETY

- Emergency stop function during closing monitored by light barrier
- Closing and opening of the element possible via optional key switch
- Version as a second escape route with 24V emergency power supply available (SWING)
- Fall-through proof according to DIN 18008-6



APPLICATION

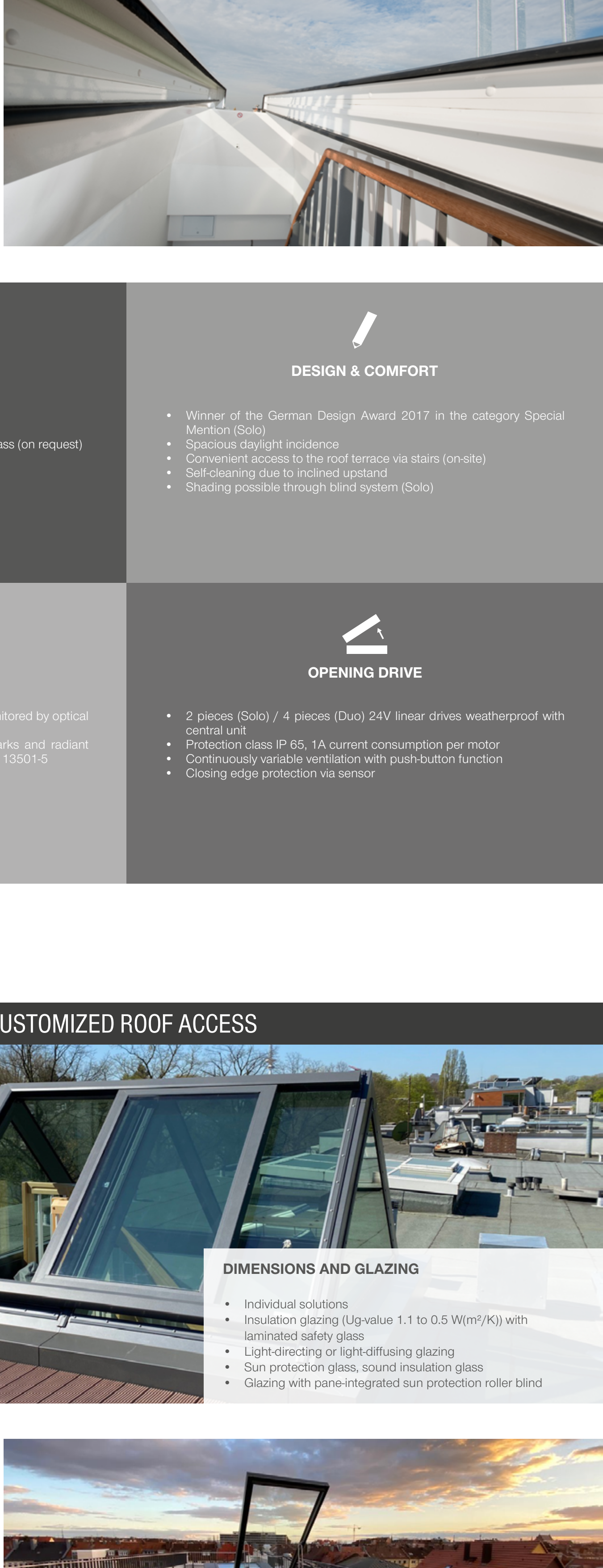
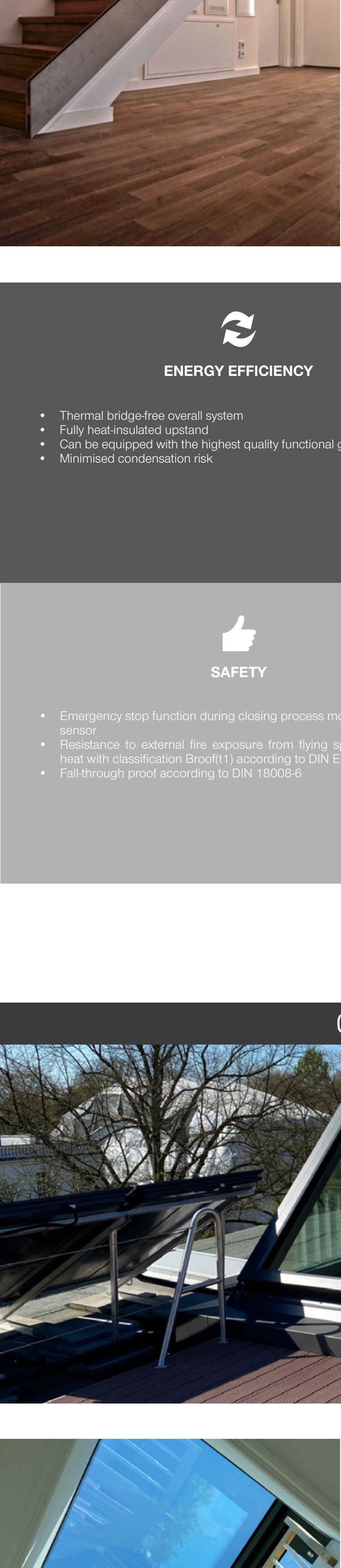
- Completely pre-assembled delivery of the skylight to the construction site
- Easy to install
- Opening or closing possible during a power failure by manual operation using a hand lever



FLAT ROOF ACCESS HATCH COMFORT SOLO AND DUO

DIMENSIONS AND GLAZING DUO

- Structural roof opening size 120 x 300 cm
- Double insulation glazing with a Ug-value of 1.1



DIMENSIONS AND GLAZING SOLO

- Structural roof opening size 120 x 350 cm
- Triple insulation glazing with a Ug-value of 0.6



ENERGY EFFICIENCY

- Thermal bridge-free overall system
- Fully heat-insulated upstand
- Can be equipped with the highest quality functional glass (on request)
- Minimised condensation risk



DESIGN & COMFORT

- Winner of the German Design Award 2017 in the category Special Mention (Solo)
- Insulation glazing (Ug-value 1.1 to 0.5 W/m²/K)
- Convenient access to the roof terrace via stairs (on-site)
- Self-cleaning due to inclined upstand
- Shading possible through blind system (Solo)



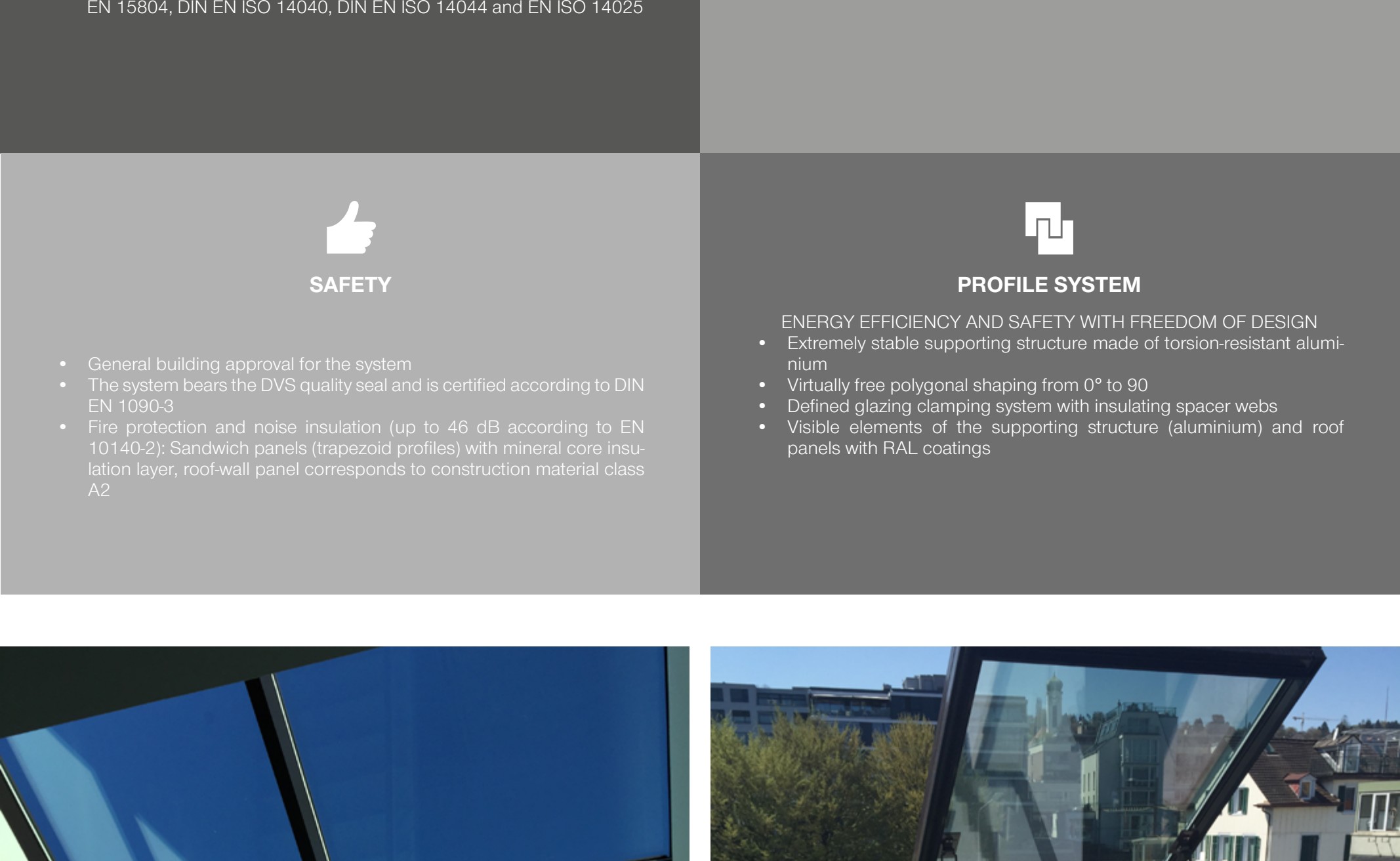
SAFETY

- Emergency stop function during closing process monitored by optical sensor
- Resistance to external fire exposure from flying sparks and radiant heat with classification Brooft(1) according to DIN EN 13501-5
- Fall-through proof according to DIN 18008-6



OPENING DRIVE

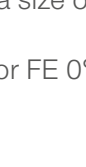
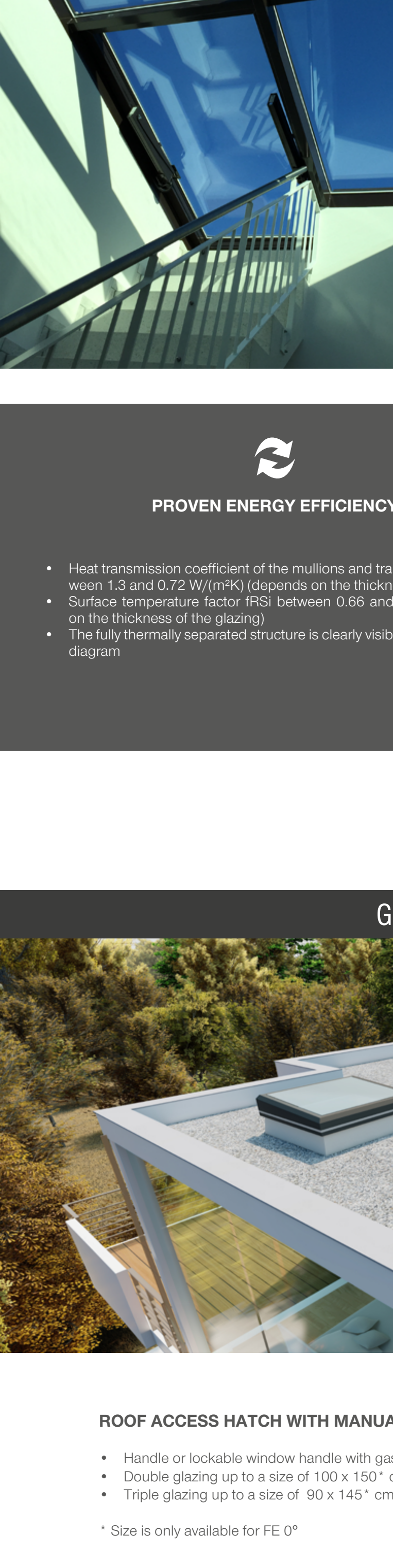
- 2 pieces (Solo) / 4 pieces (Duo) 24V linear drives weatherproof with central unit
- Protection class IP 65, 1A current consumption per motor
- Continuously variable ventilation with push-button function
- Closing edge protection via sensor



CUSTOMIZED ROOF ACCESS

DIMENSIONS AND GLAZING

- Individual solutions
- Insulation glazing (Ug-value 1.1 to 0.5 W/m²/K) with laminated safety glass
- Light-directing or light-diffusing glazing
- Sun protection glass, sound insulation glass
- Glazing with pane-integrated sun protection roller blind



ACTIVE ENERGY MANAGEMENT

- Reduction of heat losses in the frame construction
- Daylight + photovoltaics – elegantly solved in north light sheds
- Life cycle assessment made simple: For the LAMILUX Glass Skylight FE 3° there is a comprehensive [Environmental Product Declaration](#) according to DIN EN 15804, DIN EN ISO 14040, DIN EN ISO 14044 and EN ISO 14025



APPLICATION

- Solutions using a ventilation opening flap or a sliding roof window
- Motor selection is project-dependent
- Individual planning of the overall construction



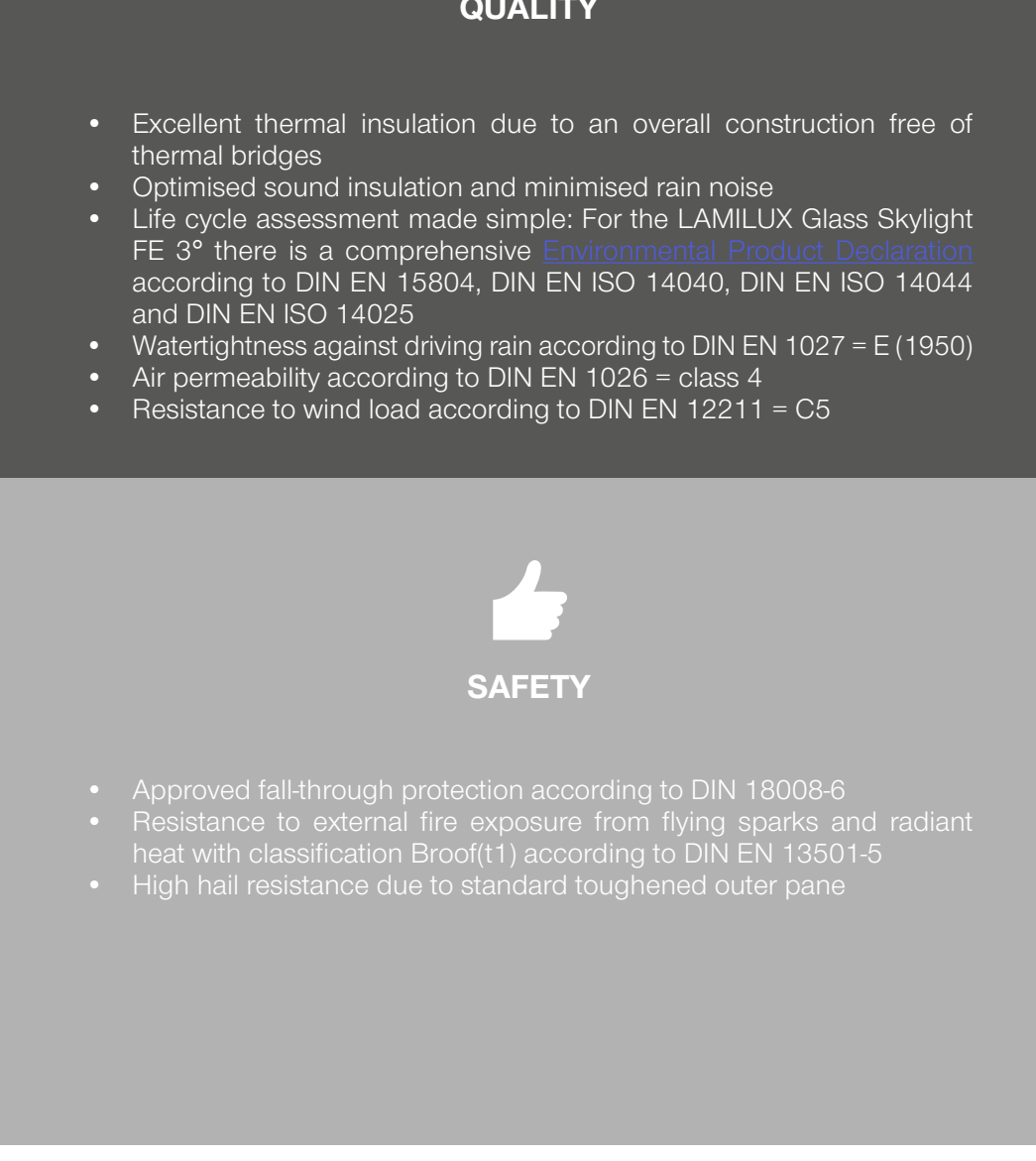
SAFETY

- General building approval for the system
- The system bears the DVS quality seal and is certified according to DIN EN 1000-3
- Fire protection and noise insulation (up to 46 dB according to EN 10140-2); Sandwich panels (trapezoid profiles) with mineral core insulation layer, roof-wall panel corresponds to construction material class A2



PROFILE SYSTEM

- ENERGY EFFICIENCY AND SAFETY WITH FREEDOM OF DESIGN
- Extremely stable supporting structure made of torsion-resistant aluminium
- Virtually free polygonal shaping from 0° to 90°
- Defined glazing clamping system with insulating spacer webs
- Visible elements of the supporting structure (aluminium) and roof panels with RAL coatings



PROVEN ENERGY EFFICIENCY

- Heat transmission coefficient of the mullions and transoms (U_{m/t}) between 1.3 and 0.72 W/(m²K) (depends on the thickness of the glazing)
- Surface temperature factor f_{RSI} between 0.66 and 0.83 (depending on the thickness of the glazing)
- The fully thermally separated structure is clearly visible in an isothermal diagram



SAFETY ON THE ROOF

WITH CE APPROVED QUALITY IN ACCORDANCE WITH EN 13830

- Watertightness against driving rain: Class RE 1950 (according to EN 12154 / EN 12155)
- Airtightness: Class AE 1950 (according to EN 12152/EN 12153)
- Resistance to wind loads: EN 13116 / EN 12179 / 2,000 Pa permissible load and 3,000 Pa increased load

GLASS SKYLIGHT FE 0° AND 3°



ROOF ACCESS HATCH WITH MANUAL OPENING

- Handle or lockable window handle with gas pressure springs
- Double glazing up to a size of 100 x 150° cm and 120 x 120 cm
- Triple glazing up to a size of 90 x 145° cm and 100 x 100 cm

* Size is only available for FE 0°



ROOF ACCESS HATCH WITH ELECTRICAL OPENING

- Convenient opening due to electric drive
- Double glazing up to a size of 120 x 150 cm
- Triple glazing up to a size of 120 x 120 cm



QUALITY

- Excellent thermal insulation due to an overall construction free of thermal bridges
- Optimised sound insulation and minimised rain noise
- Daylight + photovoltaics – elegantly solved in north light sheds
- Life cycle assessment made simple: For the LAMILUX Glass Skylight FE 3° there is a comprehensive [Environmental Product Declaration](#) according to DIN EN 15804, DIN EN ISO 14040, DIN EN ISO 14044 and DIN EN ISO 14025
- Watertightness against driving rain according to DIN EN 1027 – E (1950)
- Air permeability according to DIN EN 1028 – class 4
- Resistance to wind load according to DIN EN 12211 = CS



DESIGN

- Homogeneous appearance
- Aesthetic, classic and simple design
- Stepless transition between frame profile and glazing
- Unobstructed drainage of water and dirt due to the 3° inclination of the framework



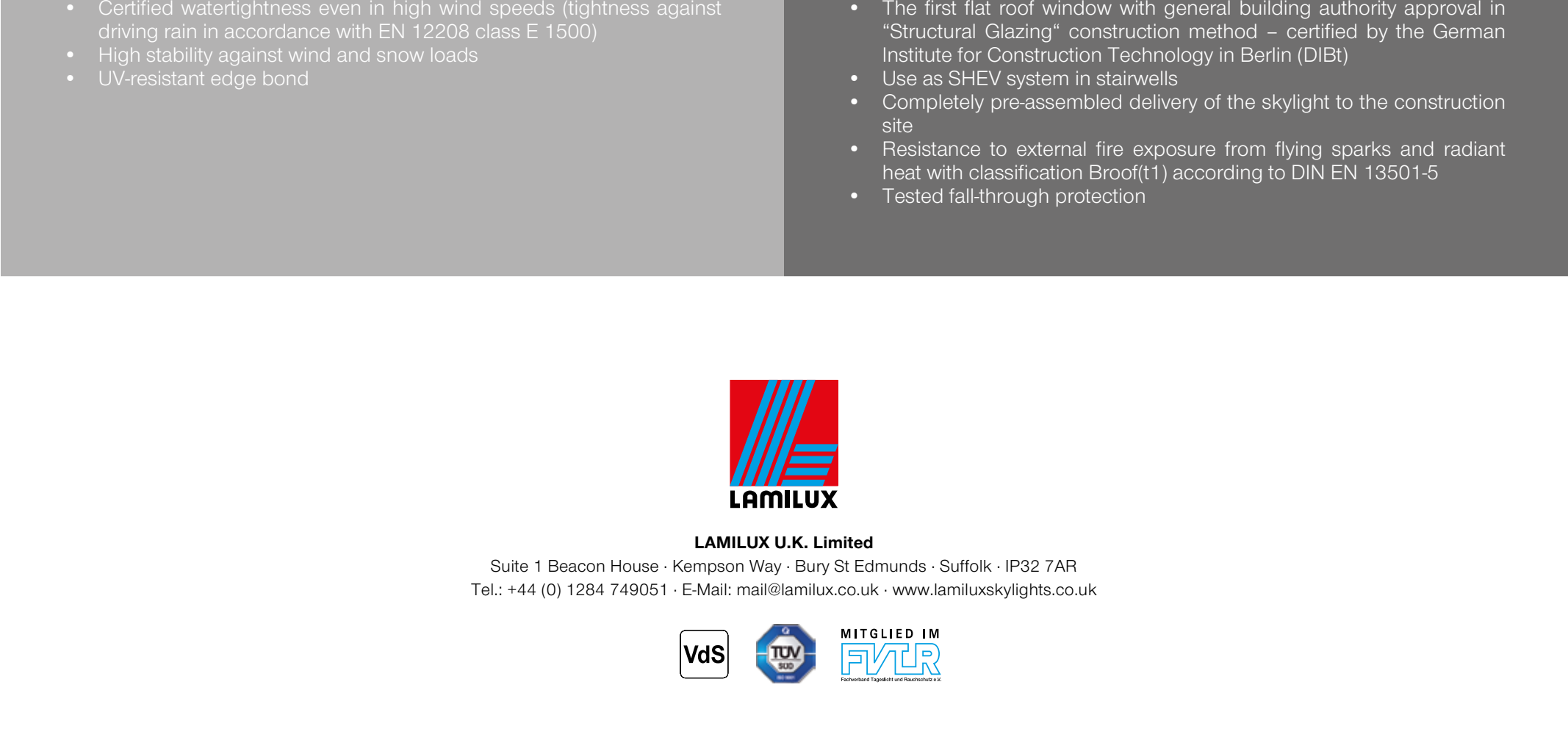
SAFETY

- Approved fall-through protection according to DIN 18008-6
- Resistance to external fire exposure from flying sparks and radiant heat with classification Brooft(1) according to DIN EN 13501-5
- High hail resistance due to standard toughened outer pane



APPLICATION

- Our LAMILUX Glass Skylights FE and FE 3° are [DVGU approved](#)
- Completely pre-assembled delivery of the skylight to the site
- Easy installation
- Efficient maintenance



GLASS SKYLIGHT F100

COMFORTABLE ROOF ACCESS HATCH

- Essential for maintenance and repair work on the flat roof
- Handle or lockable window handle with gas pressure springs
- For double glazing and triple glazing up to a size of 100 x 150 cm and 120 x 120 cm



ENERGY EFFICIENCY

- Available with double or triple insulation glazing with toughened safety glass (TSG) outside and laminated safety glass (LSG) inside (LSG optionally with clear or matt foil) with Ug-values from 1.1 to 0.7 W/m²K
- Outstanding air tightness due to new balloon double seals, Performance class 4 – tested according to EN 12207
- Life cycle assessment made simple: For the Glass Skylight F100 a comprehensive [Environmental Product Declaration](#) according to DIN EN 15804, DIN EN ISO 14040, DIN EN ISO 14044 and EN ISO 14025 is available.



DESIGN & COMFORT

- Unobstructed drainage of rainwater due to "Structural Glazing" construction method
- Optional 50 cm upstand with 5° inclination for optimal water drainage and higher comfort during exit
- Our Glass Skylight F100 is [UNIFRASE](#)
- White, silk-matt look inside – no additional drywall work necessary

STABILITY

- Certified watertightness even in high wind speeds (tightness against driving rain in accordance with EN 12208 class E 1500)
- High stability against wind and snow loads
- UV-resistant edge bond

SAFETY

- The first flat roof window with general building authority approval in "Structural Glazing" construction method – certified by the German Institute for Construction Technology in Berlin (DIBt)
- Completely pre-assembled delivery of the skylight to the construction site
- Resistance to external fire exposure from flying sparks and radiant heat with classification Brooft(1) according to DIN EN 13501-5
- Tested fall-through protection



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