

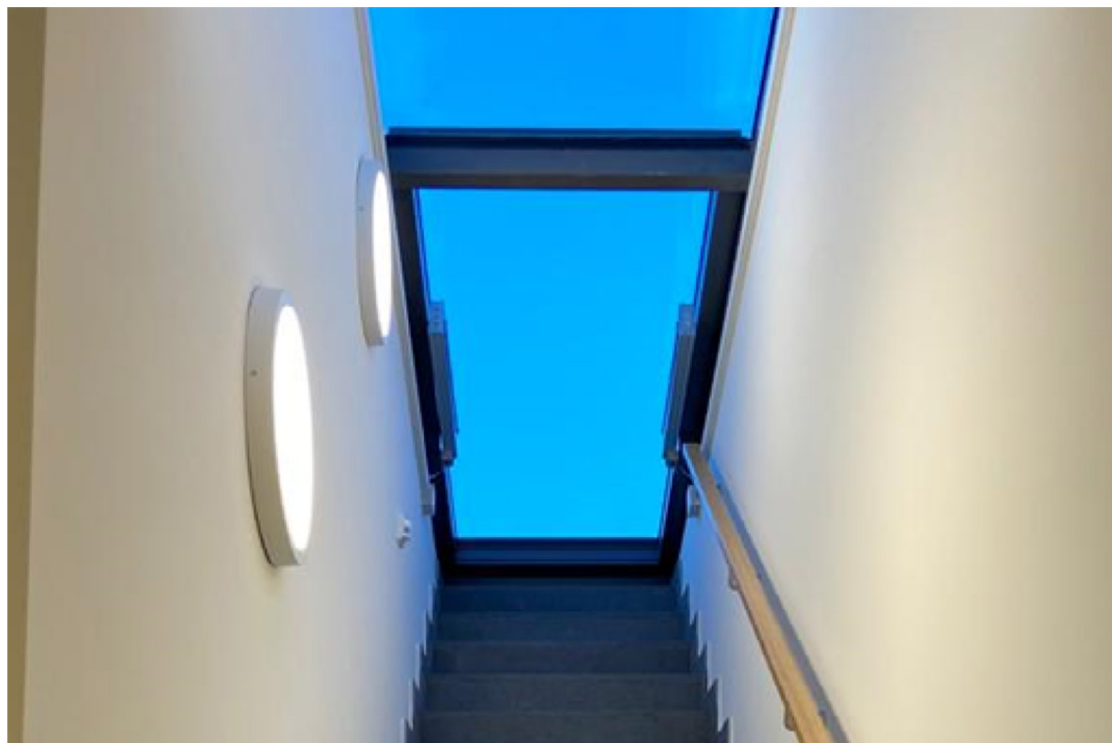
475 HIGH PERFORMANCE DAYLIGHT SYSTEMS

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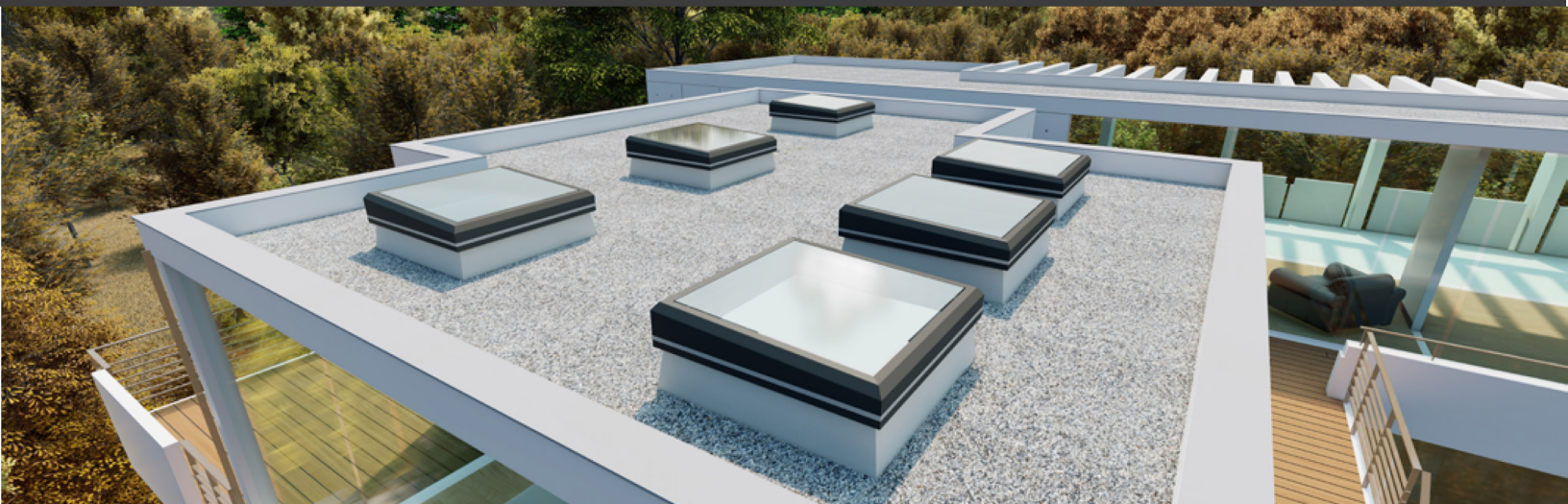


LAMILUX GENUINE GLASS FLATROOF EXITS DAYLIGHT IN EXCLUSIVE DESIGN

In the past, flat roof exits were used solely as roof 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 Exits LAMILUX offers a wide product portfolio, ranging from simple exit hatches to the convenient complete package to individual glass construction for roof terraces.



GLASS SKYLIGHT FE 0° AND 3°



ROOF EXIT WITH MANUAL OPENING

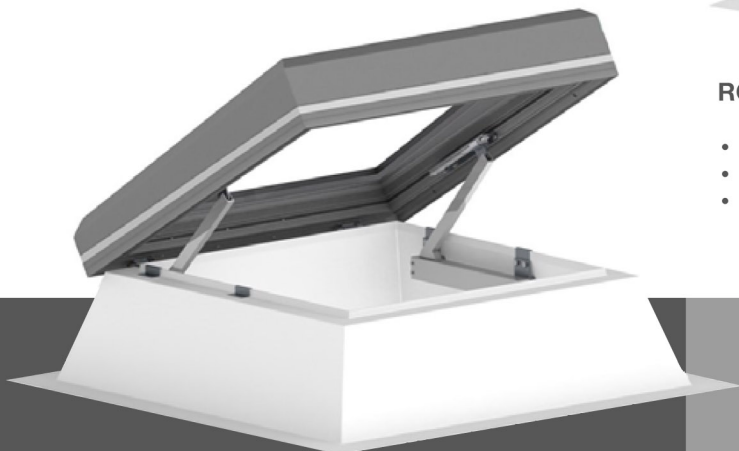
- Handle or lockable window handle with gas pressure springs
- Double glazing up to a size of 100 x 150* cm and 120 x 120 cm
- Triple glazing up to a size of 90 x 145* cm and 100 x 100 cm

* Size is only available for FE 0°



ROOF EXIT 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



- Excellent thermal insulation due to an overall construction free of thermal bridges
- Optimised sound insulation and minimised rain noise
- 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 1026 = class 4
- Resistance to wind load according to DIN EN 12211 = C5



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 Broof(t1) according to DIN EN 13501-5
- High hail resistance due to standard toughened outer pane



APPLICATION

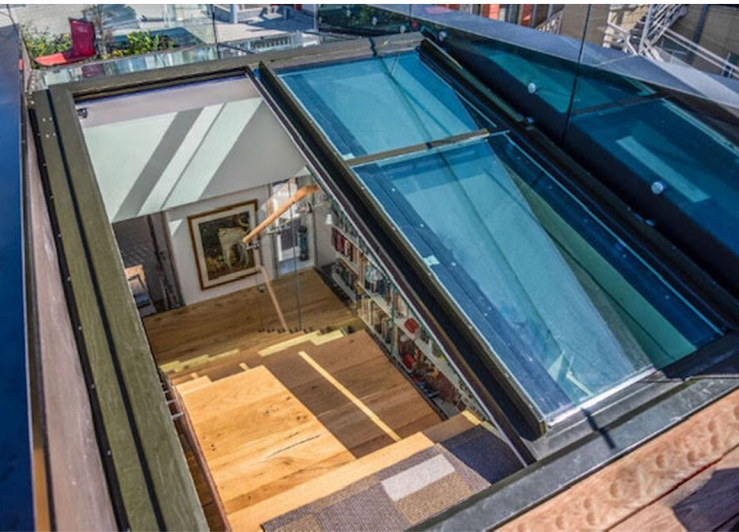
- Our LAMILUX Glass Skylights FE and FE 3° are [BIM-Ready](#)
- Completely pre-assembled delivery of the skylight to the site
- Easy installation
- Efficient maintenance

CUSTOMIZED ROOF EXITS



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 Glass Roof PR60 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 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 1090-3
- 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 (Um/t) between 1.3 and 0.72 W/(m²K) (depends on the thickness of the glazing)
- Surface temperature factor fRSi 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 load: (EN 13116 / EN 12179 / 2,000 Pa permissible load and 3,000 Pa increased load)



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