LAMILUX

NEW: CI System Rooflight Dome *F100*

Technology and design for the future of construction

CE The new LAMILUX CI System Rooflight Dome *F100*

With the LAMILUX CI System Rooflight Dome F100, we have re-invented a classic structural component for flat roofs and are advancing into the future of construction with innovative technologies. Function and design of the individual structural elements and system components combine to form a compact unit which ensures highest energy efficiency and stability. This has enabled us to re-define sustainability in modern industrial and administrative buildings.

Joachim Hessemer, qualified engineer,
Technical Director
LAMILUX Daylight Elements

The LAMILUX CI Philosophy

Customer value is the reason for our existence and is the focus of our activities. This requires unity, identity and harmonisation of customer value and our company's mission.
We at LAMILUX describe this main impulse behind our business activities and our daily dealings with our customers in our company philosophy:

Customised intelligence - serving the customer is our mission:
This means top performance and leadership in all relevant areas for customers, in particular as:

- Quality leader – the most benefit for the customer
- Innovation leader – ahead by a nose with technology
- Service leader - fast, uncomplicated, reliable and friendly
- Competence leader - the best technical and business consultation
- Problem solving leader - individual, tailored solutions

Technology and design for the future of construction

Energy Efficiency

The LAMILUX CI System Rooflight Dome F100 already complies with all requirements under the 2010 Energy Performance of Buildings Directive. Exceptional heat-insulation values due to:

- Multi-layered inner double seal system
- Multi-glazed upper sections
- Innovative, dimensionally stable frame profiles
- Fibre-reinforced composite upstand with insulation bonded to the whole surface
- Option: upstand with heat-insulated base flange

Stability

Optimum bearing capacity due to

- New, modular frame system with partial reinforcement made of fibre-reinforced composite
- Fibre-reinforced upstand with a variety of bracing options

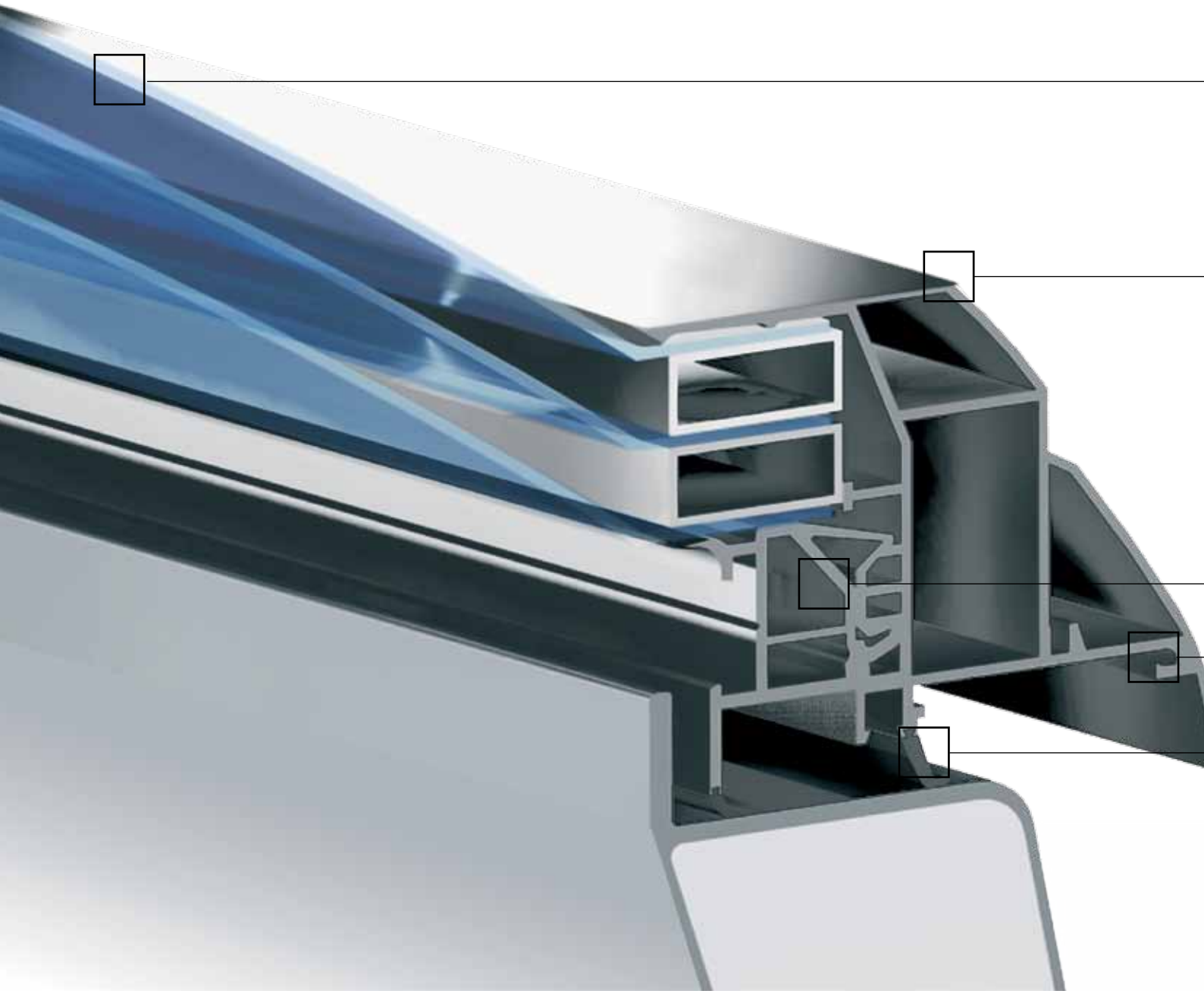
International standards

Europe-wide approvals in compliance with

- EN 1873 – for example, wind and snow load bearing capacity certified according to the first European product standard for rooflight domes
- EN 12101-2 – smoke and heat exhaust device certified according to the European product standard for smoke and heat exhaust systems
- ISO 21927-2 – smoke and heat exhaust device certified according to the world product standard for smoke and heat exhaust systems (electric and pneumatic)

CONTENT

The new LAMILUX CI System Rooflight Dome *F100*



Sustainable construction – We offer more!

NEW: highly energy-efficient glazing systems for ideal use of daylight

NEW: optimised border frame profiles for first-rate stability and torsional stiffness

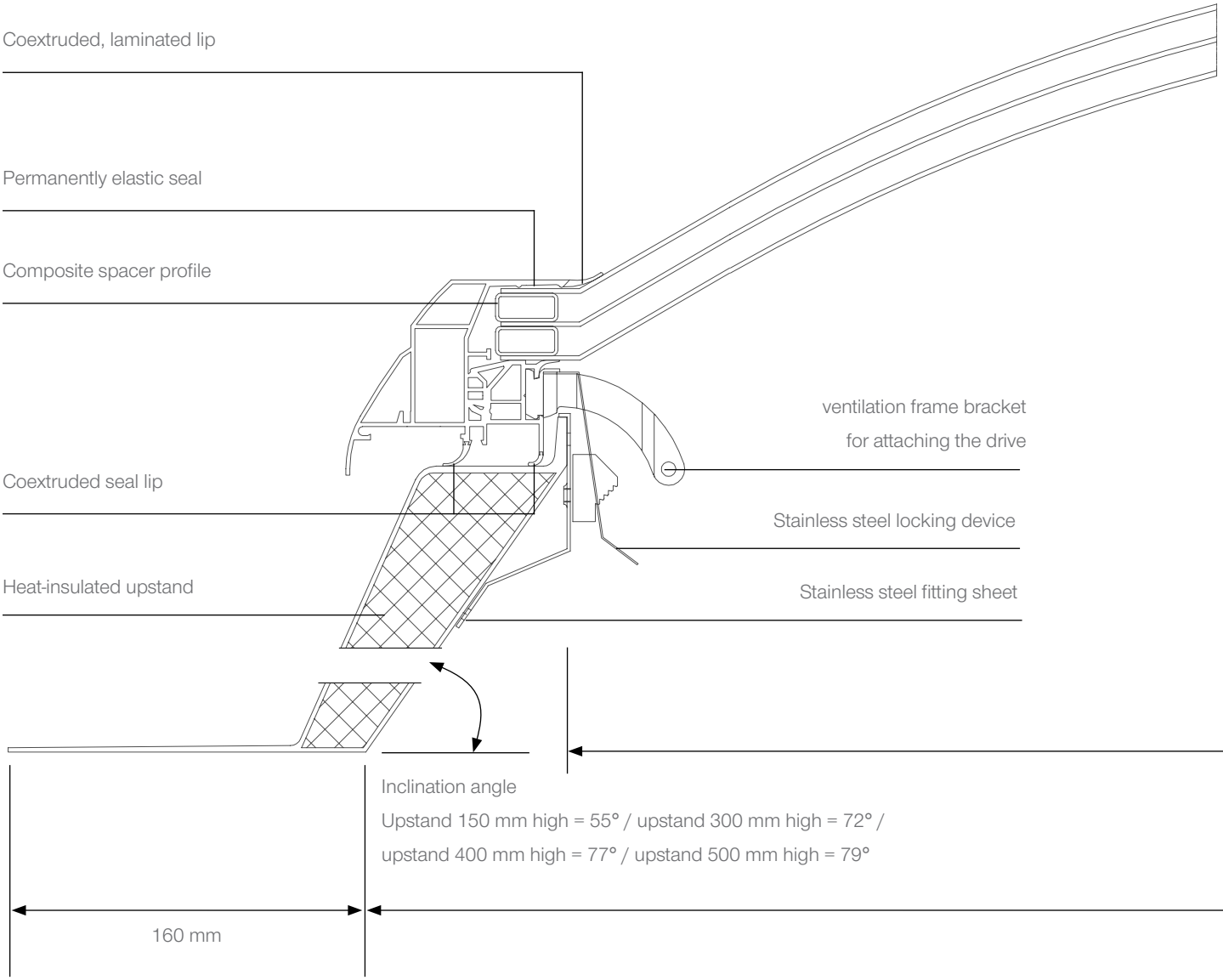
NEW: composite glazing beads with coextruded seal elements to ensure form-fitted and force-fitted load transfer

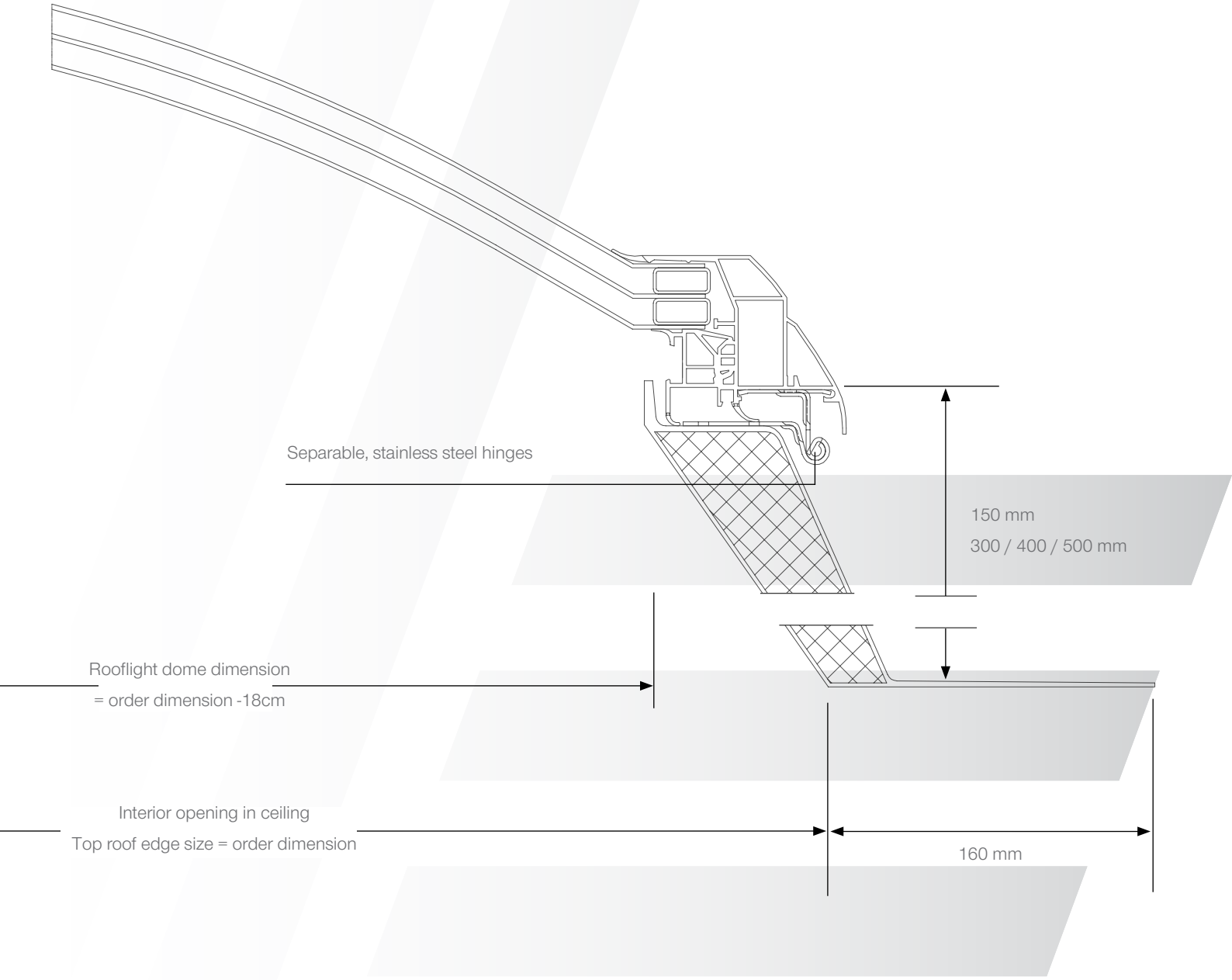
NEW: functional grooves to ensure reliable load bearing capacity in the hinge section

NEW: multi-layered double seal system for optimum system impermeability, noise insulation and heat insulation

The new LAMILUX CI System Rooflight Dome *F100*

Triple-glazed version with ventilation, locked




Separable, stainless steel hinges
150 mm
300 / 400 / 500 mm
Rooflight dome dimension
= order dimension -18cm
Interior opening in ceiling
Top roof edge size = order dimension
160 mm

Energy efficiency by the use of daylight – Glazings

Choosing the right glazing for a building's use is the most important factor in determining the amount of daylight which enters a building interior to provide pleasant, natural lighting and thus saves energy for electrical lighting systems. Our **comprehensive range of glazing** ensures individual consideration of the aspects:

- *Daylight intake – transparency, light direction and light diffusion*
- *Solar protection / heat protection*
- *Heat insulation*
- *Noise insulation*
- *Self-cleaning*
- *Safety - fall protection system and anti-burglary protection*

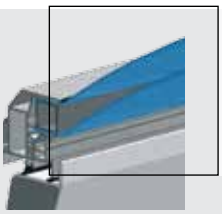
The LAMILUX CI System Rooflight Dome *F100* is available as a ventilated and locked version in all sizes (see size table). Glazing may consist of **acrylic glass (PMMA)**, impact-resistant **polyethylene (PETG), polycarbonate (PC)** or **glass-fibre composite (GRP)**.

Info: **PMMA and GRP** rooflight domes are classified as components which **are not burning and dripping. GRP** domes are also **tested according to DIN 4102-7 regarding external fire exposure to roofs. PETG is flame-resistant** and is also classified as a material which is not burning and dripping.

Employee well-being...

... is boosted enormously due to the optimum daylight intake through LAMILUX rooflight domes. Our employees benefit greatly from the homogenous, evenly distributed lighting provided by natural light in our transfer stations and are consequently more motivated as they go about their work. At the same time, we also save electric power for artificial lighting and thus make a significant contribution to conserving our environment.

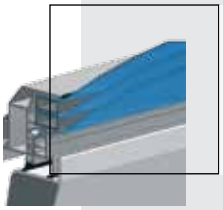
Thomas Hoermann,
Head of Construction Division at Dachser GmbH & Co. KG, Kempten, Germany



DETAIL

LAMILUX CI System Rooflight Dome *F100* Double-glazed

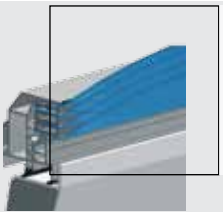
	PMMA opal/opal	PMMA transp./transp.	PETG opal/transparent	GRP untreated/untreated
Ug value:	approx. 2,7 W/(m²K)	approx. 2,7 W/(m²K)	approx. 2,6 W/(m²K)	approx. 2,7 W/(m²K)
Noise insulation level:	approx. 24 dB	approx. 24 dB	approx. 24 dB	approx. 24 dB
Translucency:	approx. 73 %	approx. 85 %	approx. 62 %	approx. 66 %
Fire class EN13501:	E (d0)	E (d0)	B-s2,d0	E (d0)
total energy admission:	approx. 73 %	approx. 85 %	approx. 62 %	approx. 66 %



DETAIL

LAMILUX CI System Rooflight Dome *F100* Triple-glazed

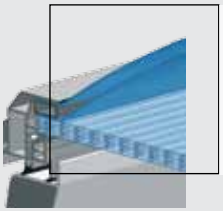
	PMMA opal/opal/opal	PMMA trans./trans./trans.	PETG opal/trans./opal	GRP untreated/unt./unt.
Ug value:	approx. 1,8 W/(m²K)	approx. 1,8 W/(m²K)	approx. 1,8 W/(m²K)	approx. 1,8 W/(m²K)
Noise insulation level:	approx. 24 dB	approx. 24 dB	approx. 24 dB	approx. 24 dB
Translucency:	approx. 64 %	approx. 80 %	approx. 44 %	approx. 55 %
Fire class EN13501:	E (d0)	E (d0)	B-s2,d0	E (d0)
total energy admission:	approx. 64 %	approx. 80 %	approx. 44 %	approx. 58 %



DETAIL

LAMILUX CI System Rooflight Dome *F100* Quadruple-glazed

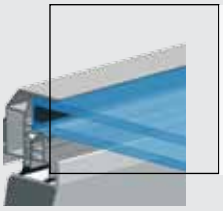
	PMMA opal/trans./trans./opal	PMMA trans./trans./trans./trans.	PETG opal/trans./trans./opal	GRP untreated/unt./unt./unt.
Ug value:	approx. 1,6 W/(m²K)	approx. 1,6 W/(m²K)	approx. 1,6 W/(m²K)	approx. 1,6 W/(m²K)
Noise insulation level:	approx. 24 dB	approx. 24 dB	approx. 24 dB	approx. 24 dB
Translucency:	approx. 63 %	approx. 73 %	approx. 39 %	approx. 44 %
Fire class EN13501:	E (d0)	E (d0)	B-s2,d0	E (d0)
total energy admission:	approx. 63 %	approx. 73 %	approx. 39 %	approx. 44 %



DETAIL

LAMILUX CI System Rooflight Dome *F100* PMMA double-glazed + PC16

Ug value:	approx. 1,3 W/(m²K)
Noise insulation level:	approx. 24 dB
Translucency:	approx. 40%
Fire class EN13501:	E (d0)
total energy admission:	approx. 39%



DETAIL

LAMILUX CI System Rooflight Dome *F100* Insulation glazing (on request)

Ug value:	approx. 1,1 W/(m²K)
Noise insulation level:	approx. 37 dB
Translucency:	approx. 77 %
Fire class EN13501:	A1
total energy admission:	approx. 63 %

Special glazing types (on request):

Dark flap with heat-insulated sandwich panels, opaque PMMA or GRP glazing, Heatstop glazing, PC glazing.

The border frame: stability and design

A new-look, **timeless design** and **optimum stability** are the **hallmarks of the newly developed, material-optimised border frame. The new layout for the seals** joining the border frame to the upstand plays a significant role in heat insulation and, consequently, in the rooflight dome's energy efficiency. Due to their spatial configuration, the seals form **four separate insulation chambers**.

New, optimised frame profile as a result of:

- Innovative reinforcement in the frame profile using **long fibre-reinforced composite**
- Glazing bead with **safety snap arm** and **extensive functional groove** to hold fitting components
- **Multi-layered, double seal system**
- Axial bolt channels to ensure **secure anchorage** of load-transmitting fitting components
- **Surrounding profile airspace** for additional reinforcement profiles
- Fitted hinge with positioning collars to ensure **fast, secure installation**

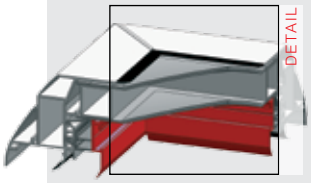
The timeless design...

is the reason for LAMILUX rooflight domes being a very modern classic in contemporary building. LAMILUX has been developing path breaking and thermally outstanding daylight systems in the aspect of energy efficiency and therewith demonstrates its innovative strength anew again and again.

Dipl.-Ing. Joachim Vogel, Thies Consult GmbH, Hof

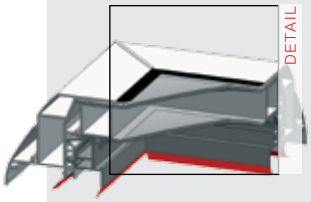
Frame profile with patented glass-fibre reinforcement
Produced during a patented process, this system enables us to achieve exceptional stability in the frame profile. A long-fibre reinforcement is partially integrated into the profile's upper and lower section (upper flange and lower flange). This system won the **JEC Paris 2009 Innovation Award**.

The benefits:
- Heavy exposure to wind suction forces only results in a slight deformation in the profile frame. This ensures the whole upper section of the rooflight dome remains firmly attached to the upstand.
- The profile is extremely resistant to bending, as the fibre-reinforcement absorbs any tensile stress.



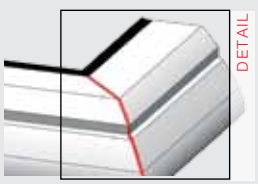
Glazing bead
A profiled, composite glazing bead provides a form-fitted and force-fitted load transfer element.

The benefits:
- Glazing is inserted into the frame profile evenly.
- A surrounding, functional groove ensures fitting components can be easily attached.



Multi-layered, double seal system
Both the frame profile and the glazing bead feature coextruded seal lips which join to the upstand's upper installation surface. The inside seals overlap in a T-shape in the corner joints.

The benefits:
- Four thermally enclosed insulation chambers are formed, which enhance the system's insulating properties.
- Good noise insulation properties
- Reliable protection against driving rain



Appearance and design
The border frame features a prominent stepped seam, a bi-convex, curved, external contour and finished welded joints.

The benefits:
- Optimised water drainage with effective self-cleaning properties
- Frame features superior tensile strength

The upstand: perfect connection to the roof

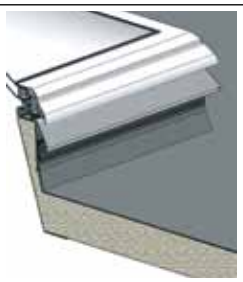
The upstand is a key component in the whole rooflight dome system. Constantly **further developed** In terms of **stability and heat-insulating properties**, the upstand forms the base for the structure. It provides a **thermally optimum connection** to the building structure.

Upstands are available in GRP (glass-fibre reinforced composite) and steel sheet. We offer great advantages to roofing specialists, as our rooflight domes are supplied fully pre-assembled. This saves a great deal of time during installation and ensures the roof opening can be quickly closed.

Manufactured by LAMILUX from fibre-reinforced composite, our upstands are **CFC-free, completely white in colour** and **thermally insulated with polyurethane hard foam**. They also feature a weatherproof sealing system. Upstands are classified as components which **are not burning and dripping**.

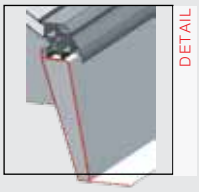
LAMILUX steel sheet upstand

An external composite frame eliminates any potential thermal bridges in this upstand. The frame also assures a professional, mechanical connection to a variety of roof sheeting types. The upstand features heat insulation as an option and is available at heights of 30, 40 and 50 centimetres and with a colour coating (RAL 9010, pure white).



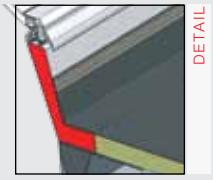
LAMILUX GRP upstand with folded-edged base flange or corrugated profile

A variant of the GRP upstand is available for attachment to profile roofs and upturn beams. This variant features a folded-edge base flange or an integrally moulded corrugated profile compatible with Corrugation Profile 5 (Corrugation 177/51) for sheet lengths of 250 or 310 cm.



Stability and safety
LAMILUX upstands feature a closed box section. A variety of metal inserts can be directly laminated into GRP upstands.

The benefits:
- Exceptional stability and torsional stiffness
- Secure anchorage of fittings and personal protective equipment (PSA) in accordance with EN 795-1996

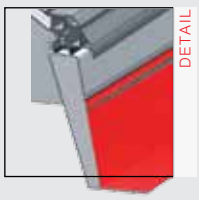


Heat insulation and variations
LAMILUX upstands can be produced in a wide range of variants with respect to height and inclination angle. They also offer an extensive variety of roof connections, which can be customised according to requirements. Example: heat-insulated base flange. The glass fibre-reinforced composite structures are filled with PU foam.

The benefits:
- Optimum heat insulation; variable insulation thicknesses available on request
- Base flange adapted to the roof insulation

Hard PVC connecting rail
Hard PVC connecting rail laminated onto base flange in factory and seal-welded in the corners.

The benefits:
- High polymer PVC and VAE roof sheeting can be welded directly onto the upstand using an expanding air or hot air welding process.



Foil connection
The upstand features a foil which is affixed in the factory.

The benefits:
- The foil is lifted onto the upstand and fitted as circumferential sealing element in line with manufacturer's instructions.
- The foil is also fastened mechanically with a special aluminium section.
- The upper connection on the upstand is also sealed with PU adhesive for weather resistance.

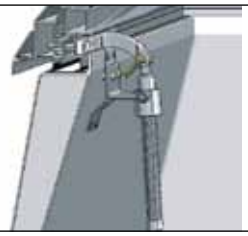
Ventilation drives for CI System Rooflight Dome *F100*

Manual opening device with hand crank

Type AK (solo), type TAK (tandem)

Lifting height about 28 cm / available lengths for hand crank rods:

150, 200; extendable: 150 - 300 and 200 - 400 cm

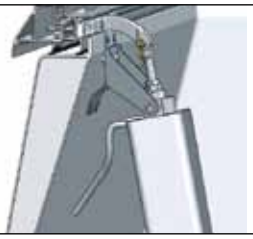


230V Electric motor

Type EM (solo or tandem design)

Voltage: 230 V / lifting height: 30 or 50 cm

Protection rating: IP 54 / end position control and thermal overload protection



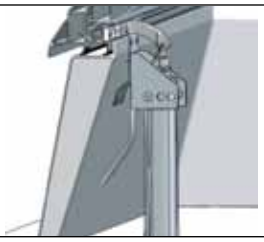
24V Electric motor

Type EM (solo or tandem design)

Voltage: 24 V

Lifting height: 30, 50, 75 or 100 cm

Protection rating: IP 54

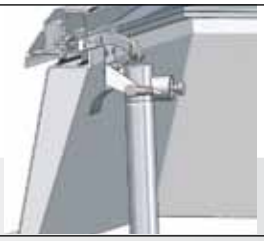


Opening device with pneumatic cylinder

Type PZ (solo or tandem design)

Required operating pressure: 8 bar.

Lifting heights: 30, 50, 70 or 100 cm



Convenient roof exits and entries

Roof exits and entries provide convenient, secure access onto the roof from building interiors– and the other way round. They are normally used by tradesmen who carry out maintenance work on the roof. This is an important task for industrial premises, where smoke and heat exhaust systems must be serviced on a regular basis, for instance. Such access is also relevant for administrative buildings and apartment blocks if roofing work or chimney cleaning services need to be carried out.

The benefits:

The CI System Rooflight Dome F100 is available as ventilated design with a combined roof exit and entry.

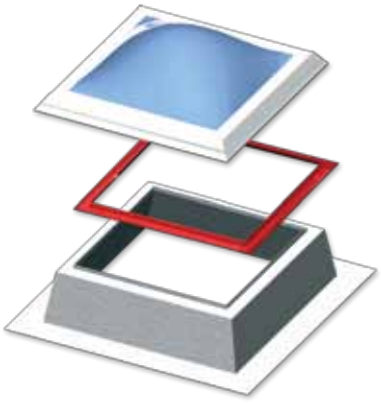
- Opened manually (lever locking mechanism and telescopic damper) or electric motor
- Electric motor operation (24V with control panel) possible up to a size of 120 x 240 cm

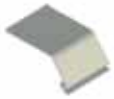
Order size for roof entrance / exit	Opened manually	Motor-driven
60/90	•	
60/120	•	
70/135	•	
80/80	•	•
80/150	•	•
90/90	•	•
90/120	•	•
90/145	•	•
100/100	•	•
100/150	•	•
100/200	•	•
100/240	•	•
120/120	•	•
120/150	•	•
120/180	•	•
120/240	•	•
125/125	•	
150/150	•	

LAMILUX Solutions – Renovating with retrofit adapters for CI System Rooflight Dome *F100*

The **CI System Rooflight Dome *F100*** is also highly suitable as a daylight system for building renovation.
The retrofitting frame, shown in red in the diagram, forms the basic component for this.

Assembled individually by using different fit adapters, it enables the **CI System Rooflight Dome *F100*** to be installed on existing upstands.





Fit Adapter 1:
Aluminium safety frame universally* adaptable to upstands with upturn. Can also be combined with adapters Fit 5 and Fit 6.

Fit Adapter 2:
Composite retrofit profile, universally* adaptable to upstands without upturn. Can also be combined with Fit Adapter 1.

Fit Adapter 3 / Fit Adapter 11:
Composite retrofit profile with aluminium safety frame (made of composite in Fit Adapter 11). Universally* adaptable to upstands without upturn.

Fit Adapter 5:
Heat-insulated heightening element made of, composite, approx. 10cm high. Can be used for upstands with or without upturn. Can also be combined with Fit Adapter 1.

Fit Adapter 6:
Heat-insulated heightening element made of glass fibre-reinforced composite (GRP), approx. 20cm high. Universally* adaptable to upstands with or without upturn, suitable for smoke and heat ventilation systems (SHEVs) Can also be combined with Fit Adapter 1 or 10.

Fit Adapter 8:
Heat-insulated, heightening element combined with an aluminium frame for installation and roof connection. Universally* adaptable to different supporting structures.

Fit Adapter 9:
Heat-insulated, heightening element combined with an aluminium frame with eave sheeting for installation and roof mount. Universally* adaptable to different supporting structures.

Fit Adapter 10:
Composite safety frame integrated in factory (see page 10) for LAMILUX GRP upstands.

Fit Adapter 12:
Composite adapter frame designed for roof connection by customer. Universally* adaptable to customer-provided frames or different shaped supporting structures.

Fit Adapters 1, 3, 10, 11 and 12 can be combined with an inlay apron to protect the join section.

* depends on building's structural conditions

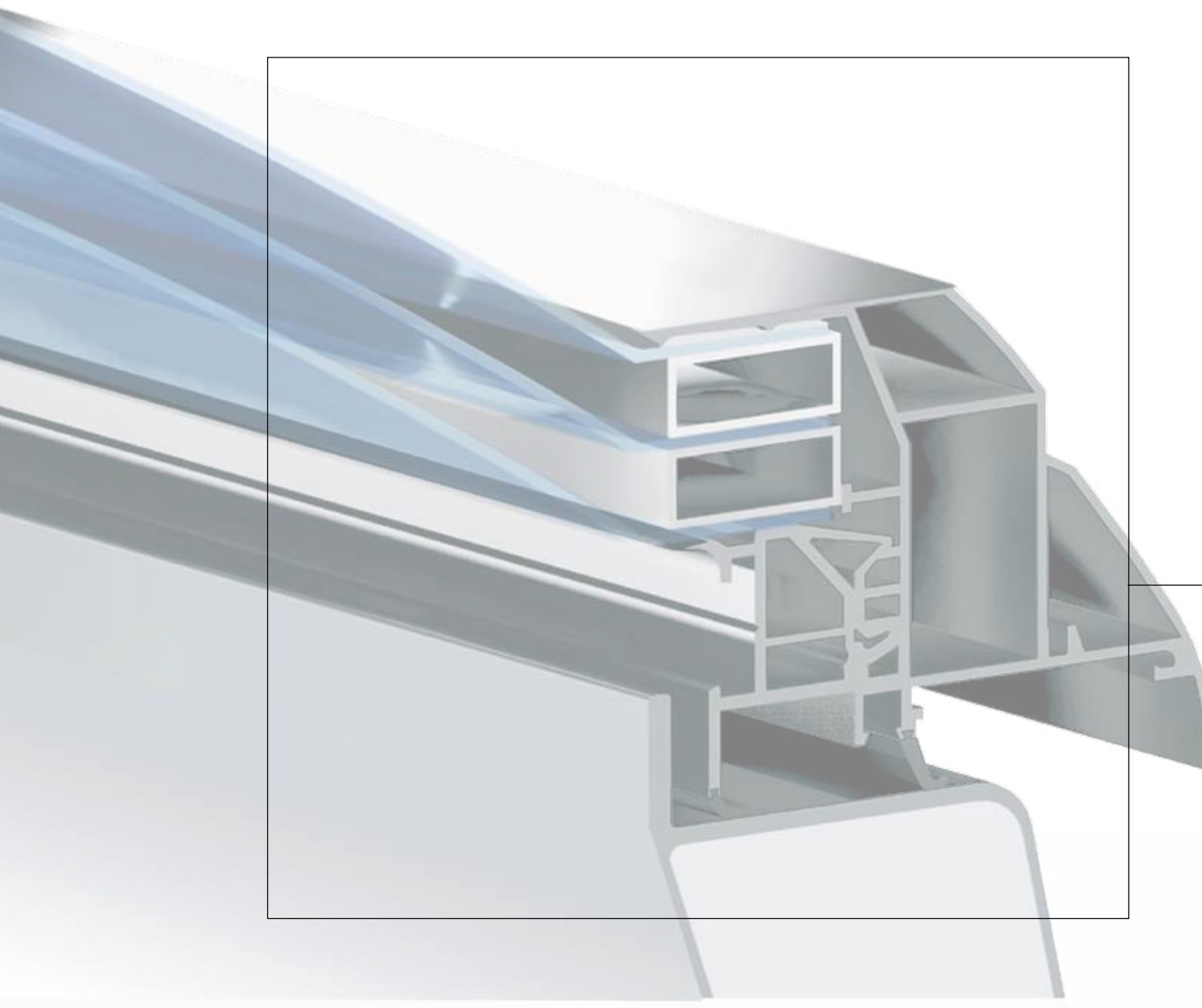
LAMILUX's reliability ...

... has always saved us from unpleasant surprises in our international projects. Due to the good material and manufacturing quality in rooflight domes, we did not have to record any transport damage at our construction sites in Hungary, Romania, Bulgaria or Russia to date.

Project Management East Europe, Metro AG

The new LAMILUX CI System Rooflight Dome *F100*

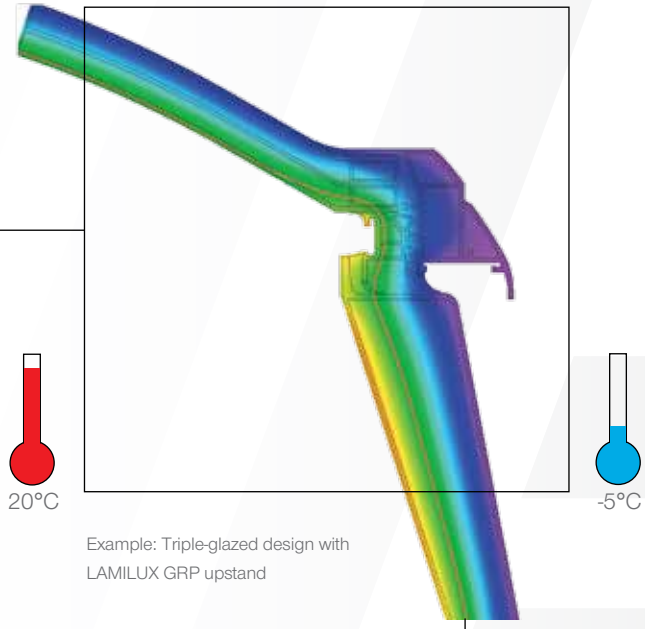
TIP Total **I**nsulated **P**roduct



Optimised isothermal characteristics for consistent heat insulation zones **without any weak spots** provide superior heat protection in all sections throughout the structure – Evidence of optimum energy efficiency. LAMILUX calls this **thermal bridge-free** product concept **TIP**: Total Insulated Product.

Energy efficiency – on flat roofs

Detailed, thermo-technical calculations substantiate the exceptional heat insulation properties of the LAMILUX CI System Rooflight Dome *F100*. Optimum Uw values are ensured by the energy-relevant interplay throughout the structure between individual system components, such as glazing, the border frame and the seal system. Crucial factors in this respect are the choice of materials, component geometry, the overall design and insulation.



Example: Triple-glazed design with LAMILUX GRP upstand

The **verified, flawless isothermal characteristics** produce above average energy efficiency characteristics. These **considerably reduce** the **risk of condensation build-up** on the inside of the rooflight dome when temperatures are low outside. Moreover this tight system **retains** a great deal of **heat energy** inside the building.

10° isothermal line remains within the structure

Isothermal lines are a series of points featuring the same temperature (red line in the diagram) and visualise a measurable customer benefit. The 10° isothermal line is a measured variable used in building physics, for instance. If this line goes off a structure, condensate or even hoar frost will form precisely at this point. In contrast, **optimum distribution of the 10° isothermal line leads** to noticeable reduction in the risk of condensation on the interior of the overall structure when temperatures are low outside.

High-grade products...

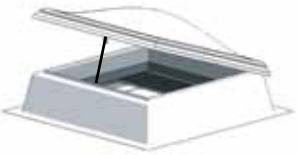
...and an equal partnership are a high priority for us as a medium-sized, quality-oriented and innovation-focused enterprise. For this reason, we have been using LAMILUX rooflight domes and SHEV systems for our workshops for years. The main reasons for choosing LAMILUX are durability, quality and, last but not least, the service.

Dr. Christian Heinrich Sandler, CEO at Sandler AG

Optional equipment

Solar protection with deciduous tree effect
Metal screen with deciduous tree effect for natural shade in the RAL coating you require.

Shade system with louver
This controllable shade system consists of a louver. The electrically controlled louver is fastened to the interior of the upstand.



Insect protection screen
This protection screen is integrated into the upstand. No insects can enter the building interior when the rooflight dome is open.

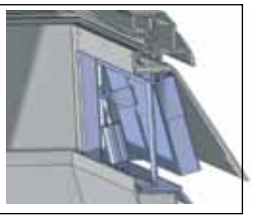
Fall-through protection grill/ break-in protection grill
Fall-through protection grills are permanent fall-proof systems in compliance with employers' liability insurance association approval certification.

Ventilator
The ventilator and its weatherproof cover are integrated into the 50cm-high upstand to provide ventilation. Air flow rate: 840 m³/h. Protection rating: IP44

Small space ventilation unit
This unit is integrated into upstands 30, 40 and 50 cm high to provide ventilation. Air flow rate: 170 m³/h
Protection rating: IP44

PSA
Stainless steel anchorage point to attach personal protective equipment (PSA) certified according to EN 795-1996.

Rain-proof ventilation
The rain-proof ventilation flap system is fitted to the side walls in heightening element Fit 6.



Renovation
LAMILUX fit adapters ensure that the CI System Rooflight Dome F100 can be installed on virtually all existing upstands.

The **wind and rain sensor**
This is a signal-emitting sensor which detects changes in wind and rain conditions. It sends signals to the control system to ensure the rooflight dome is opened and closed automatically according to weather conditions.

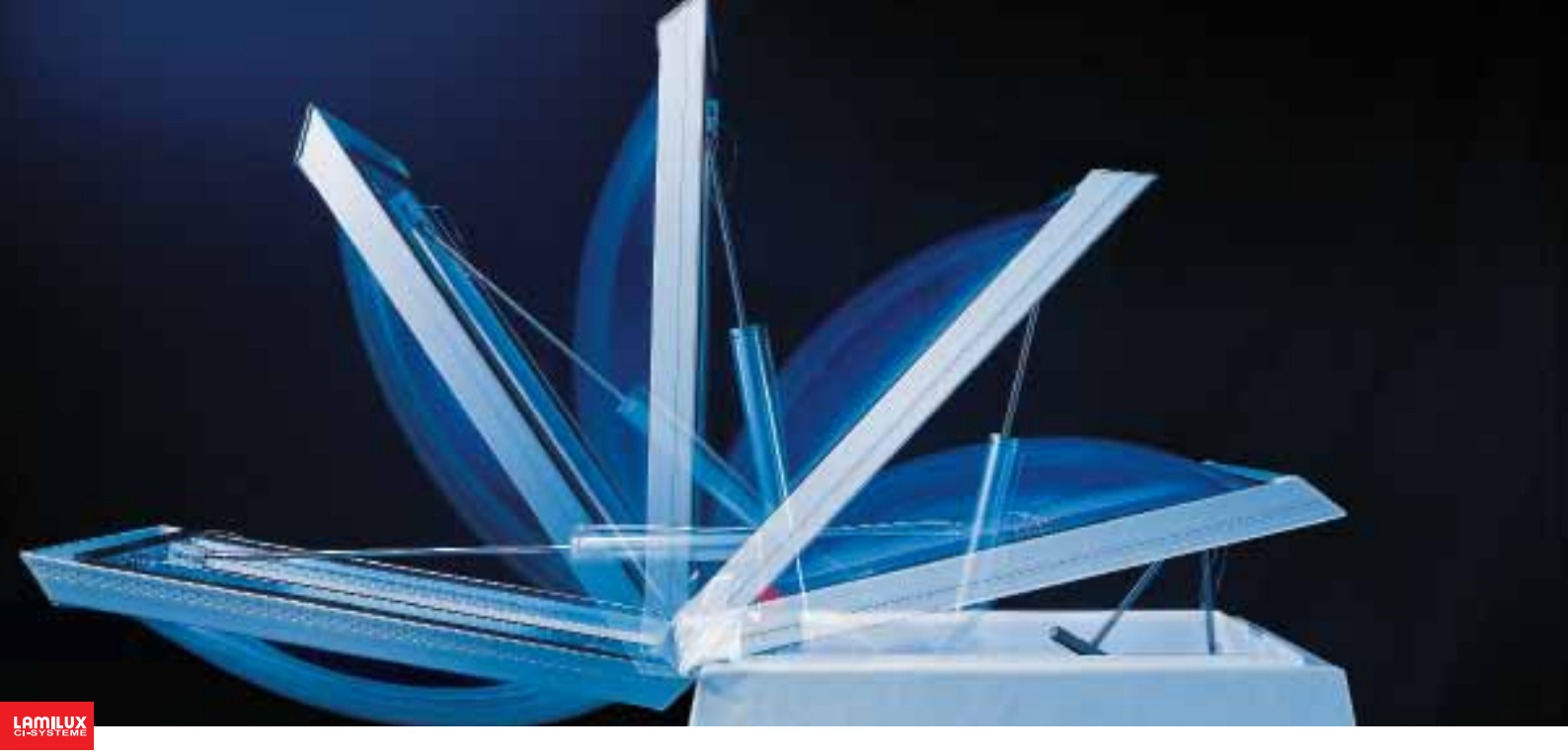
LAMILUX CI-System Rooflight Dome *F100*

Order size Interior opening in ceiling = Top roof edge size	Lighting area steep upstand	Position of ventilation device	Double, triple or quadruple acrylic glass (PMMA) or PETG	Double, triple or quadruple glass-fibre composite (GRP)	Upstand 15 cm	Upstand 30 cm	Upstand 40 cm	Upstand 50 cm	Special upstand GRP profile 5 corrugation 177/51	Steel sheet upstand insulated/ non-insulated	Aluminium upstand
cm	m^2										
50/100	0,26		•	•	•	•			•	•	•
50/150	0,42		•	•	•	•		•	•	•	•
60/60	0,18		•	•	•	•	•	•	•	•	•
60/90	0,30		•	•	•	•	•	•	•	•	•
60/120	0,43		•	•	•	•			•	•	•
70/135	0,61		•	•	•			•	•	•	•
80/80	0,38		•	•	•	•	•	•	•	•	•
80/150	0,82		•	•	•	•	•	•	•	•	•
90/90	0,52		•	•	•	•	•	•	•	•	•
90/120	0,73		•	•	•	•	•	•	•	•	•
90/145	0,91/1,08[3]		•	•	•				•	•	•
100/100	0,67		•	•	•	•	•	•	•	•	•
100/150	1,08		•	•	•	•	•	•	•	•	•
100/200	1,49		•	•	•	•	•	•	•	•	•
100/240	1,82		•	•	•	•	•	•	•	•	•
100/250	1,90		•	•	•	•	•	•	•	•	•
100/300	2,31		•	•	•	•		•		•	•
100/400	3,13			•[2]	•					•	•
120/120	1,04		•	•	•	•	•	•	•	•	•
120/150	1,35		•	•	•	•	•	•	•	•	•
120/180	1,65		•	•	•	•	•	•	•	•	•
120/240	2,26		•	•	•	•	•	•	•	•	•
120/250	2,37		•	•		•		•	•	•	•
120/270	2,57		•	•	•	•		•		•	•
125/125	1,15		•	•	•	•	•	•	•	•	•
125/250	2,48		•	•	•	•	•	•	•	•	•
125/470	4,84			•[2]	•	•				•	•
135/230	2,48		•	•	•				•	•	•
140/140	1,49		•	•		•	•		•	•	•
150/150	1,74		•	•	•	•	•	•	•	•	•
150/180	2,14		•	•	•	•	•	•	•	•	•
150/200	2,40		•	•	•	•	•	•	•	•	•
150/210	2,53		•	•	•	•	•	•	•	•	•
150/240	2,93		•	•	•	•	•	•	•	•	•
150/250	3,06		•	•	•	•	•	•	•	•	•
150/270	3,33		•	•	•	•	•	•		•	•
150/300	3,99[4]		•	•		•	•			•	•
180/180	2,62		•	•	•	•	•	•		•	•
180/240	3,60		•	•	•	•	•	•		•	•
180/250	3,76		•	•	•	•	•	•		•	•
180/270	4,08		•	•	•	•	•	•		•	•
180/320	4,89			•[2]	•	•				•	
200/200	3,31		•	•	•	•	•	•		•	•
200/250	4,22		•	•		•				•	•
225/225	4,28			•		•		•		•	•
300/300	7,95			•[2]		•				•	•

LAMILUX CI-System Rooflight Dome F70 round

Order size Interior opening in ceiling = Top roof edge size	Lighting area steep upstand	Double, triple or quadruple acrylic glass (PMMA) or PETG	Upstand 30 cm	Upstand 50 cm
cm	m^2			
60 round	0,14	•[1]	•	•
90 round	0,41	•[1]	•	•
100 round	0,53	•[1]	•	•
120 round	0,82	•[1]	•	•
150 round	1,37	•[1]	•	•

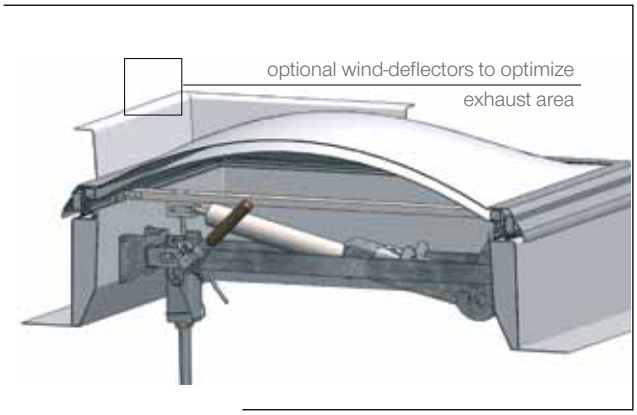
[1] Supplied without PVC border frame only / [2] not supplied as ventilated version (with lockable ventilation only) / [3] Special upstand design / [4] steep upstand design



LAMILUX SHEV - smoke and heat exhaust ventilators Type smoke lift

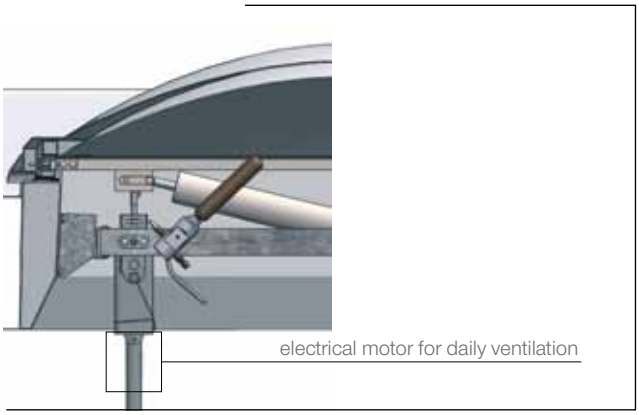
A wide range of sizes and opening variations providing optimum solution for your project.

Release devices can either be with pneumatic cylinders or electrical motors (24V / 230V) - complying with European directives according EN 12101-2 and worldwide standard ISO 21927-2.



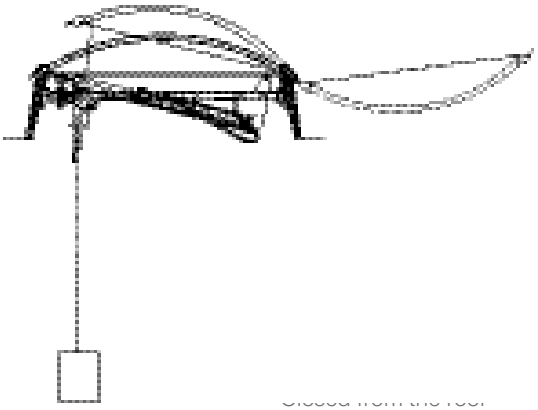
SHEVs can optionally be equipped with units for daily ventilation (pneumatical or electrical). An automatic, weather-activated control increases ease of operation.

An additional „close“ function can be provided as an optional extra for pneumatic version. This allows you to close the SHEV system remotely without having to climb onto the roof. The electrical version always contains closing function by default.



LAMILUX smoke and heat ventilation systems for rooflights...

- open without impacting the roof
- skylight and CO_2 bottles of thermo release aren´t damaged by opening during testing or false alarms (reduces costs)
- in conformity with EN 12101-2 (CE mark)
- in conformity with ISO 21927-2



Closed from the roof

LAMILUX smoke and heat exhaust ventilators

Type smoke lift with inclined curb	
Size	Aerodynamic free area (sq m)
100/100	0,60
100/150	0,90
100/200	1,30
100/240	1,56
100/250	1,62
100/300	1,95
120/120	0,93
120/150	1,17
120/180	1,40
120/240	1,87
120/300	2,34
125/125	1,01
125/250	2,03
150/150	1,46
150/180	1,75
150/200	1,95
150/210	2,05
150/240	2,34
150/250	2,44
150/300	2,93
180/180	2,10
180/240	2,81
180/250	2,93
180/270	3,16
180/300	3,51
200/200	2,60

Type smoke lift with steep curb and spoiler	
Size	Aerodynamic free area (sq m)
100/100	0,75
100/150	1,12
100/200	1,50
100/240	1,80
100/250	1,87
100/300	2,25
120/120	1,08
120/150	1,35
120/180	1,62
120/240	2,16
120/300	2,70
125/125	1,17
125/250	2,34
150/150	1,68
150/180	2,02
150/200	2,25
150/210	2,36
150/240	2,70
150/250	2,81
150/300	3,37
180/180	2,43
180/240	3,24
180/250	3,37
180/270	3,65
180/300	4,05
200/200	3,00

Type smoke lift DH (electrical)	
Size	Aerodynamic free area (sq m)
120/120	0,94
120/150	1,17
120/180	1,40
120/240	1,87
125/125	1,01
150/150	1,46
180/180	1,76

LAMILUX
CI-SYSTEMS


DOMELIGHT F100


CONTINUOUS ROOFLIGHT B


LIGHT PANEL

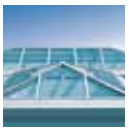

GLASS ARCHITECTURE KWS 60 / M


SHEV CONTROL TECHNOLOGY


SUPPLY AIR DEVICES


GLASS ARCHITECTURE F


CONTINUOUS ROOFLIGHT S


BUILDING UPGRADES


SMOKE AND HEAT
VENTILATION SYSTEMS


PHOTOVOLTAICS


FIBRE-REINFORCED
COMPOSITES

LAMILUX

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TÜV PRODUCT SERVICE QM-System zertifiziert nach DIN EN ISO 9001

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F100-2010EN - 09/2010