



**form  
follows  
function**



## Convincing arguments

INDU LIGHT's new Libra light dome stands out thanks to its minimalist design. Reduced to the essentials, it has an elegant feel with no dirt-collecting edges. Its appearance is perfect both for sophisticated architecture and for industrial applications.

Libra also scores highly as far as technology is concerned. Its outstanding thermal insulation values, as well as two gasket seals and a stable frame in all versions speak for themselves.

Will Libra become the favourite to assemble? We think so! This is due to the assembly-friendly roof connection frame, various renovation solutions and, ultimately, its "Made in Germany" quality. After all, Libra, just like all the other INDU LIGHT products, is manufactured in Germany.

## DESIGN

- Minimalist form
- No dirt-collecting edges
- Gleaming traffic white colour

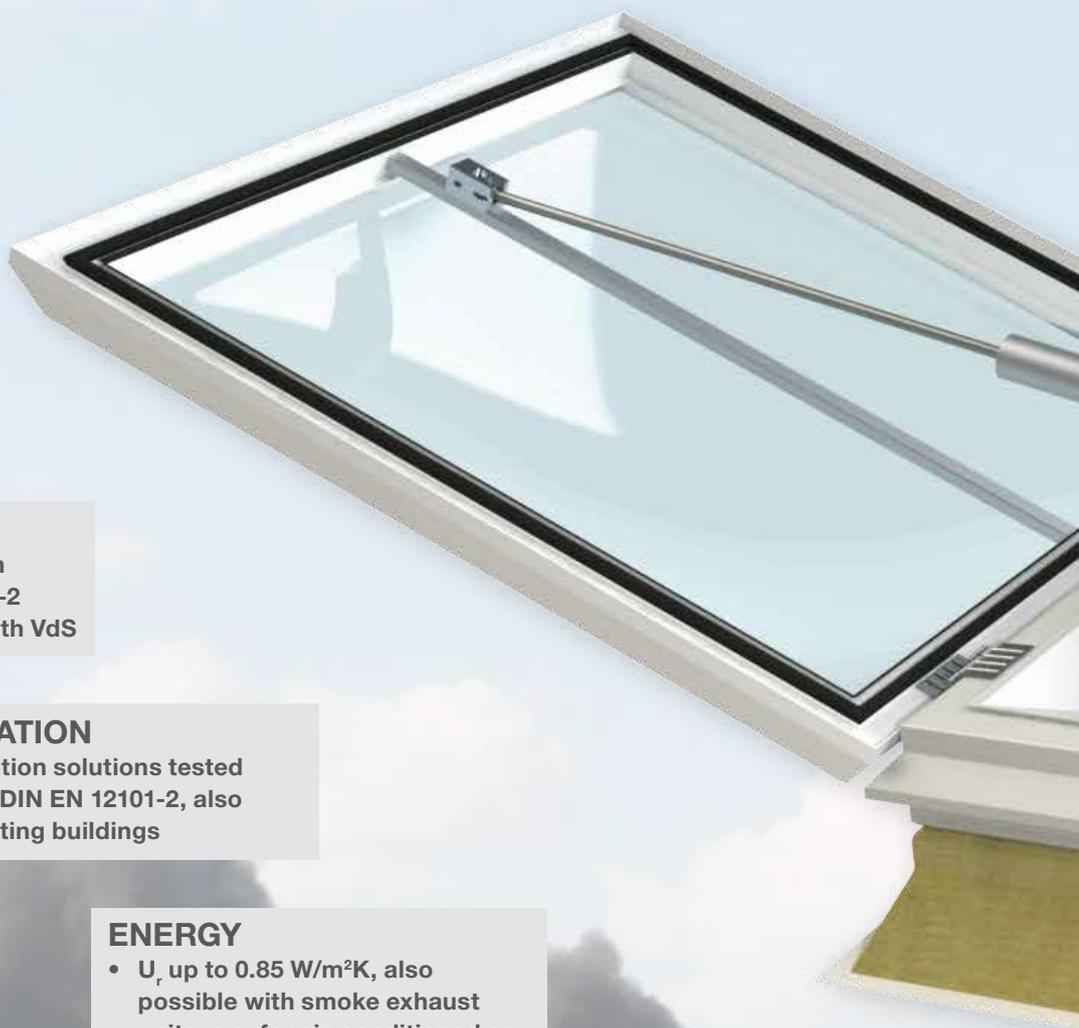
## TECHNICAL DETAILS

- $U_r$  up to  $0.85 \text{ W/m}^2\text{K}$
- Dual gasket seal system
- Stable frame

## PROCESSING

- Assembly-friendly
- Renovation-friendly
- "Made in Germany"





### **SAFETY**

- Qualified smoke extraction tested acc. to DIN EN 12101-2
- System approval in acc. with VdS

### **RENOVATION**

- Renovation solutions tested acc. to DIN EN 12101-2, also for existing buildings

### **ENERGY**

- $U_r$  up to  $0.85 \text{ W/m}^2\text{K}$ , also possible with smoke exhaust units, e.g. for air-conditioned or temperature-sensitive rooms

### **VARIETY**

- Convenient range of sizes, smoke extractors up to  $1800 \times 2500 \text{ mm}$

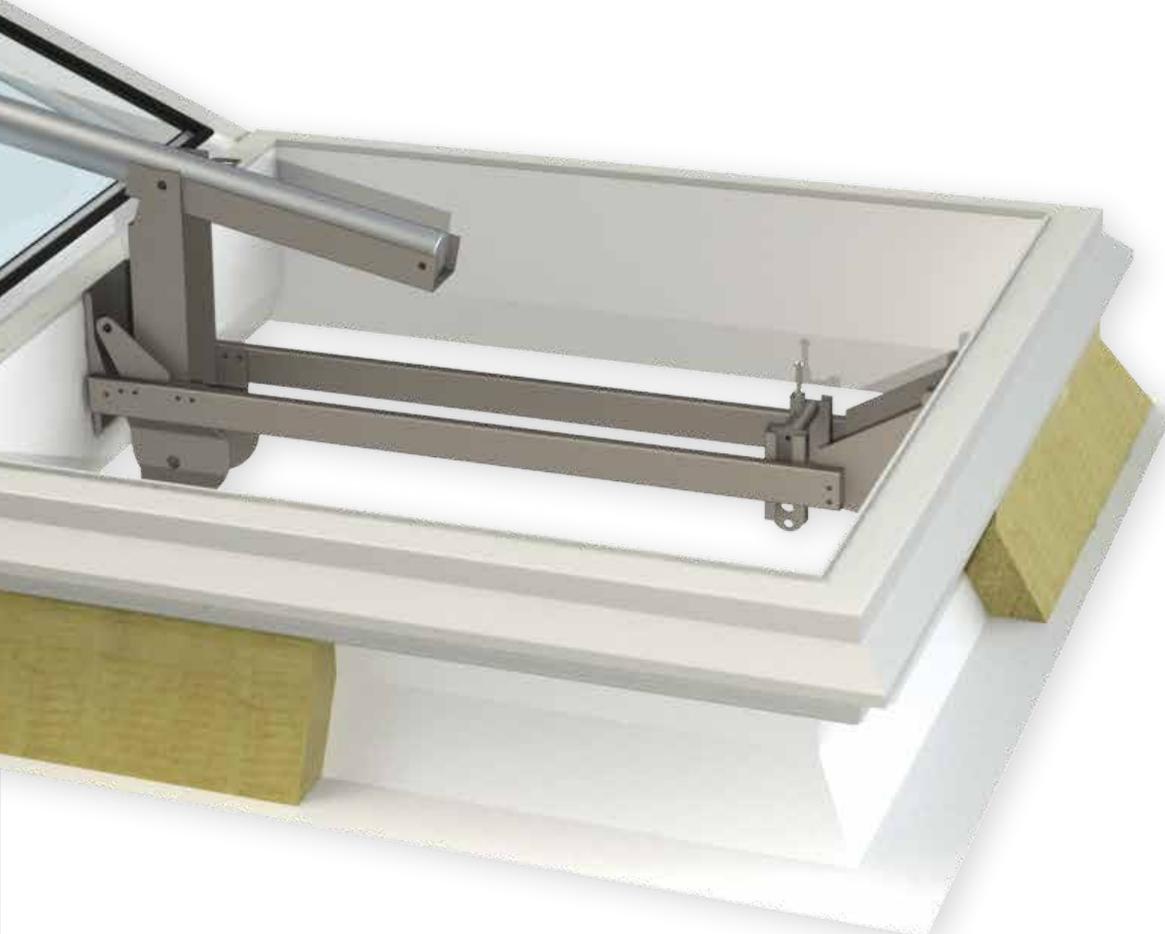
## **Safety thanks to natural smoke extractors**

Time is a crucial aspect in the event of a fire. To extend the time available to rescue people, natural smoke and heat exhaust units are used. They prevent flashovers and ensure safe smoke extraction in the event of a fire. This guarantees a low-smoke layer, allowing the fire service to rescue people quicker. In addition, they extend the load-bearing capacity of components by removing heat. They prevent the building from being completely destroyed and thus offer property protection.

Qualified smoke and heat exhaust units such as INDU LIGHT's Libra NSHEV have a guaranteed and proven effect. We are happy to support architects and specialist planners with our comprehensive and generally free technical advice service for planning smoke and heat exhaust units.

## Smoke extractors

Natural smoke and heat exhaust units can be combined safely and diversely to avoid human and material damage.



# Libra NSHEV

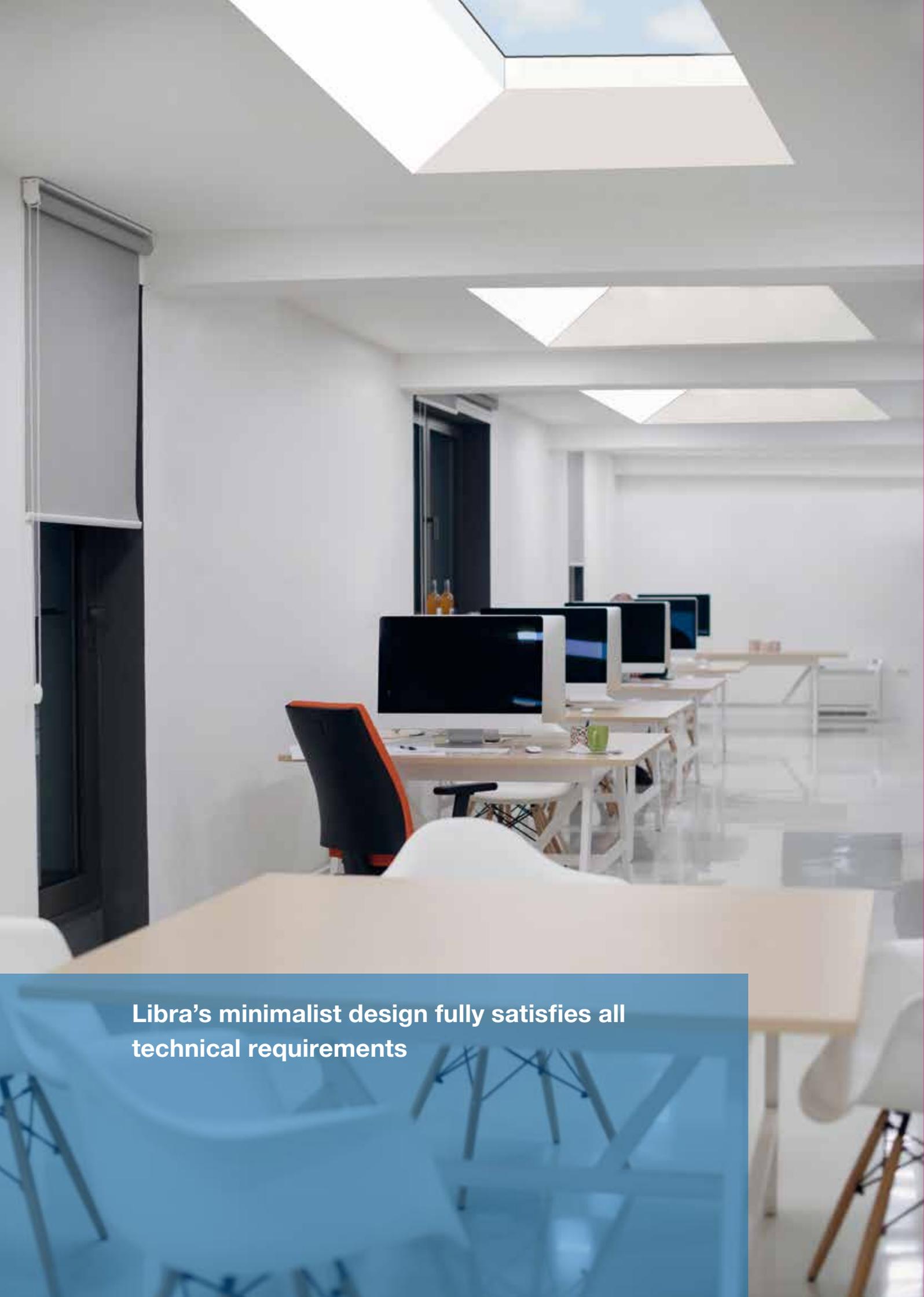


### Control | Open / Close function

The opening mechanism can either be triggered on each individual smoke exhaust unit or centrally controlled via an alarm box. All NSHEVs that are connected in this group automatically open at the same time. The smoke and heat exhaust units are manually or automatically controlled by thermal release, fire detectors or a fire alarm system. All smoke and heat exhaust units can be optionally equipped with an Open / Close function. In this way, the opened units can be closed again quickly and safely, even in the event of a false alarm, without having to access the roof.

### Maintenance

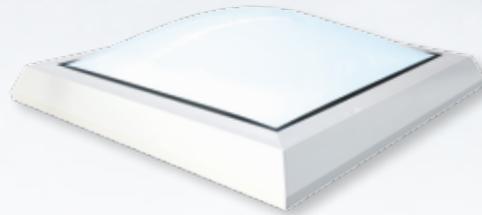
In order to guarantee that the installed smoke exhaust unit functions permanently and to maintain the value of this investment, regular and proper care and maintenance of this stationary safety unit is indispensable. Maintenance is stipulated in numerous laws, directives, guidelines and regulations as an essential duty of care for building owners and operators. INDU LIGHT is a VdS-approved constructor of SHEV systems and guarantees expert and cost-effective maintenance.



**Libra's minimalist design fully satisfies all technical requirements**

# Configuration according to your requirements and wishes

Glazing



**2-shell**  
2 shells

**3-shell**  
3 shells

**4-shell**  
4 shells

**Libra ELS 1**  
1 shell + PC32

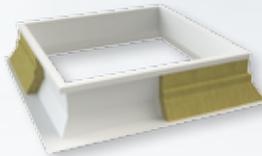
**Libra ELS 2**  
1 shell + 2 x PC16



Upstands



**GRP upstand**  
Thickness: 30 or 60 mm  
Hights: 150, 300, 400  
und 500 mm



**Steel upstand**  
Thickness: 60 mm  
Hights: 300, 500  
and 600 mm



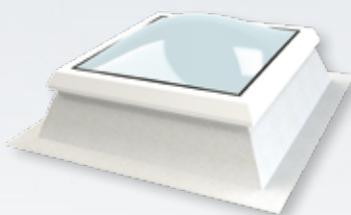
**Steel renovation upstand**  
Thickness: 60 mm  
Hight: 250 mm



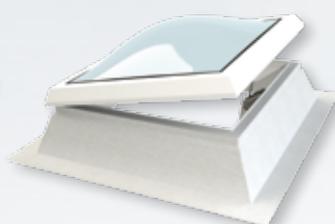
**PVC upstand**  
Thickness: 40 mm  
Hights: 150 and  
300 mm



Function



**Fixed**



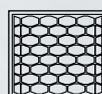
**Ventilated**  
230 Volt | 24 Volt



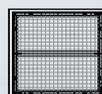
**Smoke extraction**  
pneumatic (except 4-shell),  
upstand only in steel and GFK  
**Optional:** ventilated, 230 Volt,  
Open/Close function

## Equipment options:

- Steel mesh grid
- Hail protection grid
- Ventilation motors
- Shaded dome
- Snow load dome



**Steel mesh grid**  
Safety tested in accordance  
with DIN 4426



**Hail protection grid**  
Reliable protection  
against hail damage

## Your benefits:



### Healthy daylight

Natural illumination improves well-being and safety at work – even free of charge.



### Reduced heating costs

thanks to the exemplary heat transfer coefficient  $U_r$  up to  $0.85 \text{ W/m}^2\text{K}$



### Appealing design

and technical finesse enhance not just the look of your property.



### Cost-effective assembly

due to its quick attachment to roof structures



The light dome with a phenomenal energy balance

## Kerbs



**Steel upstand**  
with mineral fibre insulation and PVC roof connection profile



**GRP upstand**  
with integrated insulation, appealing design and high insulation values



**Steel renovation upstand**  
with mineral fibre insulation and PVC roof connection profile



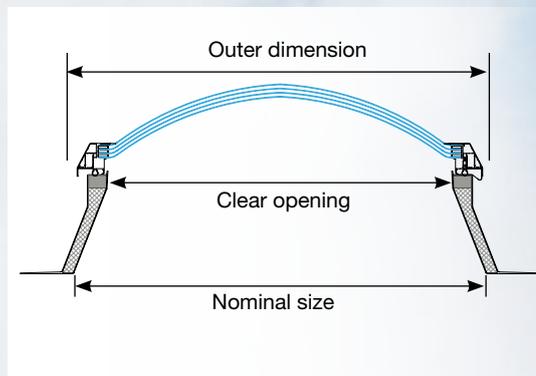
**PVC upstand**  
multi chamber system for stability and high insulation values

## Technical details Libra

### Nominal sizes

Libra rigid / ventilated (in mm)		
500 x 1000	1000 x 2500	1500 x 2400
500 x 1500	1000 x 3000	1500 x 2500
600 x 600	1200 x 1200	1500 x 2700
600 x 900	1200 x 1500	1500 x 3000
600 x 1200	1200 x 1800	1700 x 3000
800 x 800	1200 x 2400	1800 x 1800
800 x 1000	1200 x 2500	1800 x 2400
900 x 900	1200 x 2700	1800 x 2500
900 x 1200	1250 x 1250	1800 x 2700
1000 x 1000	1250 x 2500	2000 x 2000
1000 x 1500	1500 x 1500	2000 x 2500
1000 x 2000	1500 x 1800	
1000 x 2400	1500 x 2100	

### The right dimension



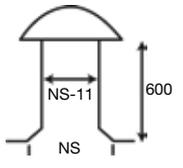
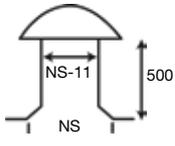
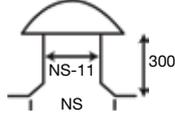
### U Values Libra in W/m<sup>2</sup>K according to DIN 1873:2016

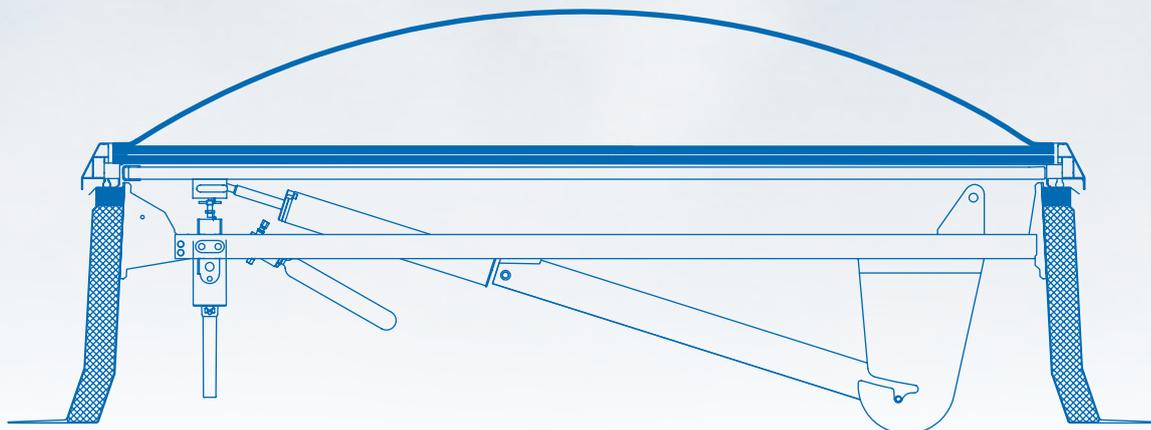
	2-shell	3-shell	4-shell	Libra ELS 1	Libra ELS 2
$U_r$	2,5	1,8	1,5	0,88	0,85
$U_{rc}$ GRP 150/30 PU	2,1	1,6	1,4	0,98	0,96
$U_{rc}$ GRP 150/60 PU	2,0	1,5	1,3	0,9	0,88
$U_{rc}$ GRP 300/30 PU	1,8	1,4	1,2	0,9	0,89
$U_{rc}$ GRP 300/60 PU	1,6	1,2	1,1	0,76	0,75
$U_{rc}$ GRP 400/30 PU	1,6	1,3	1,1	0,88	0,86
$U_{rc}$ GRP 400/60 PU	1,4	1,1	0,97	0,71	0,70
$U_{rc}$ GRP 500/30 PU	1,5	1,2	1,1	0,86	0,85
$U_{rc}$ GRP 500/60 PU	1,3	1,0	0,91	0,68	0,67
$U_{rc}$ GRP 150/30 mineral fibre	2,2	1,7	1,4	1,0	1,0
$U_{rc}$ GRP 150/60 mineral fibre	2,1	1,6	1,3	0,95	0,93
$U_{rc}$ GRP 300/30 mineral fibre	1,9	1,5	1,3	1,0	0,99
$U_{rc}$ GRP 300/60 mineral fibre	1,7	1,3	1,1	0,83	0,82
$U_{rc}$ GRP 400/30 mineral fibre	1,7	1,4	1,3	1,0	0,99
$U_{rc}$ GRP 400/60 mineral fibre	1,5	1,2	1,1	0,8	0,78
$U_{rc}$ GRP 500/30 mineral fibre	1,7	1,4	1,2	1,0	0,99
$U_{rc}$ GRP 500/60 mineral fibre	1,4	1,1	1,0	0,77	0,76
$U_{rc}$ Steel 300/60 mineral fibre	1,9	1,5	1,4	1,0	1,0
$U_{rc}$ Steel 500/60 mineral fibre	1,6	1,3	1,2	0,93	0,91
$U_{rc}$ Steel 600/60 mineral fibre	1,5	1,2	1,1	0,89	0,88
$U_{rc}$ Steel renovation 250/60 mineral fibre	2,1	1,7	1,5	1,2	1,2

$U_r$  = U value for light dome including border frame     $U_{rc}$  = U value for light dome including border frame and upstand

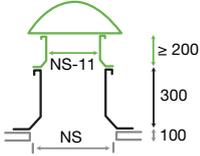
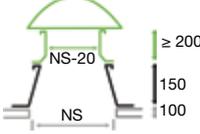
# Technical details Libra NSHEV pneumatic - DIN EN 12101-2

with steel upstand

		Aerodynamic opening area $A_a$ [m <sup>2</sup> ]									
		Upstand 600mm		Upstand 500mm				Upstand 300mm			
Nominal size (NS) in cm x cm	Geometric opening area $A_g$ of the NSHEV in m <sup>2</sup>										
		not necessary	not necessary	✓	✓	-	-	✓	✓	-	-
Wind deflectors		-	✓	-	✓	-	✓	-	✓	-	✓
Fall-through protection		-	✓	-	✓	-	✓	-	✓	-	✓
100 x 100	1,00	0,73	0,70	0,72	0,69	0,68	0,65	0,70	0,67	0,60	0,57
100 x 150	1,50	1,11	1,07	1,10	1,05	1,02	0,98	1,07	1,02	0,87	0,83
100 x 200	2,00	1,50	1,44	1,48	1,42	1,38	1,32	1,44	1,38	1,14	1,08
100 x 240	2,40	1,82	1,75	1,80	1,73	1,66	1,58	1,75	1,68	1,32	1,25
100 x 250	2,50	1,90	1,83	1,88	1,80	1,73	1,65	1,83	1,75	1,38	1,30
120 x 120	1,44	1,05	1,01	1,04	0,99	0,98	0,94	1,01	0,96	0,85	0,81
120 x 150	1,80	1,31	1,26	1,30	1,24	1,22	1,17	1,26	1,21	1,04	0,99
120 x 180	2,16	1,60	1,53	1,58	1,51	1,47	1,40	1,53	1,47	1,23	1,17
120 x 240	2,88	2,16	2,07	2,13	2,04	1,96	1,87	2,04	1,96	1,56	1,47
120 x 250	3,00	2,25	2,16	2,22	2,13	2,04	1,95	2,16	2,07	1,62	1,53
150 x 150	2,25	1,64	1,58	1,60	1,53	1,53	1,46	1,55	1,49	1,26	1,19
150 x 180	2,70	1,97	1,89	1,92	1,84	1,84	1,76	1,86	1,78	1,49	1,40
150 x 210	3,15	2,30	2,21	2,27	2,17	2,14	2,05	2,17	2,08	1,70	1,61
150 x 240	3,60	2,63	2,52	2,59	2,48	2,41	2,30	2,48	2,38	1,91	1,80
150 x 250	3,75	2,78	2,66	2,70	2,59	2,51	2,40	2,63	2,51	1,99	1,88
180 x 180	3,24	2,33	2,24	2,30	2,20	2,24	2,14	2,20	2,11	1,72	1,62
180 x 240	4,32	3,11	2,98	3,02	2,89	2,85	2,72	2,89	2,76	2,20	2,07
180 x 250	4,50	3,24	3,11	3,15	3,02	2,97	2,84	3,02	2,88	2,30	2,16
200 x 200	4,00	2,88	2,76	2,80	2,68	2,76	2,64	2,68	2,56	2,04	1,92



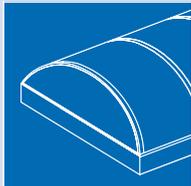
with steel renovation upstand

Nominal size (NS) in cm x cm		Geo-metric opening area $A_v$ of the NSHEV in m <sup>2</sup>		Aerodynamic opening area $A_a$ [m <sup>2</sup> ]							
											
				Renovation upstand 200/(-110) mm with existing upstand and ceiling				Renovation upstand 200/(-200) mm with existing upstand and ceiling			
Wind deflectors		✓	✓	-	-	✓	✓	-	-		
Fall-through protection		-	✓	-	✓	-	✓	-	✓		
100 x 100	1,00	0,72	0,69	0,72	0,69	0,66	0,63	0,64	0,61		
100 x 150	1,50	1,08	1,04	1,08	1,04	1,01	0,96	0,96	0,92		
100 x 200	2,00	1,46	1,40	1,46	1,40	1,36	1,30	1,26	1,20		
100 x 240	2,40	1,75	1,68	1,75	1,68	1,66	1,58	1,51	1,44		
100 x 250	2,50	1,83	1,75	1,83	1,75	1,73	1,65	1,58	1,50		
120 x 120	1,44	1,02	0,98	1,02	0,98	0,95	0,91	0,91	0,86		
120 x 150	1,80	1,30	1,24	1,28	1,22	1,19	1,13	1,13	1,08		
120 x 180	2,16	1,56	1,49	1,53	1,47	1,45	1,38	1,36	1,30		
120 x 240	2,86	2,07	1,99	2,04	1,96	1,96	1,87	1,79	1,70		
120 x 250	3,00	2,16	2,07	2,13	2,04	2,04	1,95	1,86	1,77		
150 x 150	2,25	1,58	1,51	1,58	1,51	1,49	1,42	1,40	1,33		
150 x 180	2,70	1,89	1,81	1,86	1,78	1,78	1,70	1,67	1,59		
150 x 210	3,15	2,21	2,11	2,17	2,08	2,08	1,98	1,92	1,83		
150 x 240	3,60	2,52	2,41	2,45	2,34	2,38	2,27	2,20	2,09		
150 x 250	3,75	2,63	2,51	2,55	2,44	2,51	2,40	2,29	2,18		
180 x 180	3,24	2,24	2,14	2,20	2,11	2,11	2,01	1,98	1,88		
180 x 240	4,32	2,94	2,81	2,81	2,68	2,81	2,68	2,55	2,42		
180 x 250	4,50	3,06	2,93	2,93	2,79	2,93	2,79	2,66	2,52		
200 x 200	4,00	2,72	2,60	2,64	2,52	2,60	2,48	2,40	2,28		

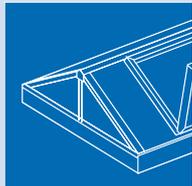


# Modular product range

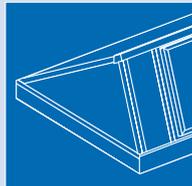
## Continuous rooflights / Light domes



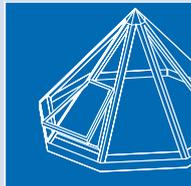
Topline ELS  
Proline



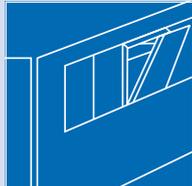
Skyline



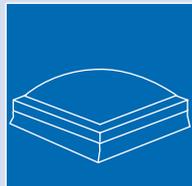
Shedline



Highline



Sideline

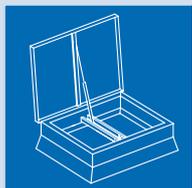


Libra

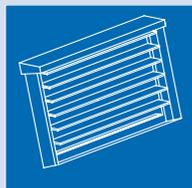
## Smoke and heat exhaust ventilators



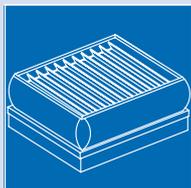
Vela



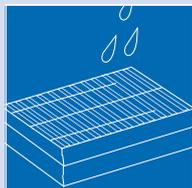
Leo



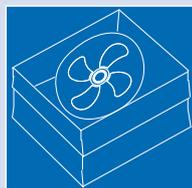
Lyra



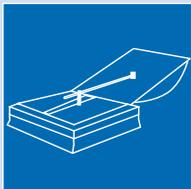
Virgo



Hydra

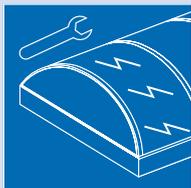


Taurus

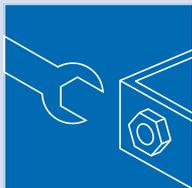


Libra NSHEV

## Renovation – maintenance



Renovation



Maintenance

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