



LACKER

Solutions in Metal and Glass

WINDOW SYSTEMS

**LIGHT- AND
AIR-FLOODED**



LACKER WINDOWS

NATURAL VENTILATION
EXTRA-FILIGREE
SMOKE/HEAT VENTING AND SUPPLY VENTILATION
FALL PROTECTION
RELIABLE PERFORMANCE
ANTI-TRAP FUNCTION

WEATHERTIGHT
SAFE
ROBUST
CUSTOM-MADE
TESTED

MADE FROM GLASS AND METAL

Glass and metal add a fascinating transparency to all types of buildings and structures. Drawing on its expertise in the field of fenestration, LACKER delivers top-class window solutions for architects, designers and clients. Indeed, no challenge is too great for our engineers and technicians.

Our know-how is particularly in demand whenever the design brief calls for sophisticated glass and metal window products. These may be used to build unconventional facades, glass roofs or special assemblies.

For nearly three decades now, we have been manufacturing custom window solutions in the Black Forest town of Waldachtal for worldwide delivery. Our entire workforce realizes the importance of catering for the discriminating wishes of our customers with the necessary passion for perfection. Down to the very last detail! Ongoing training and continuing professional development guarantee our company's consistently high quality standards.

If you are looking for a reliable fenestration partner capable of crafting exceptional glass and metal solutions, then why not learn more about us?

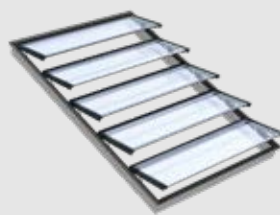
LACKER GmbH

WINDOW SOLUTIONS MADE BY LACKER

- **bigAir® Facade**
Facade louvre windows
- **bigAir® Roof**
Roof louvre windows
- **bigSwing**
Top-, side- and bottom-hung windows
- **topSwing**
Top-hung roof windows



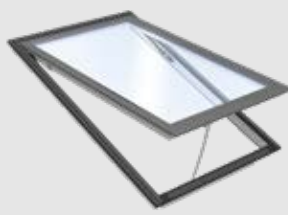
- Fully outward-opening
- All-glass effect
- Filigree sections
- XXL NSHEV approval to DIN EN 12101-2
- Optionally with single, double or triple glazing
- Concealed motor system
- Anti-trap protection up to VFF Safety Class 4
- Installation even where subject to extreme conditions, e.g. in high-rise buildings, sports halls, damp spaces (drive units tested up to IP67)



- Fully outward-opening
- Flush installation
- For use in all stick-system assemblies and tile roofs with pitches down to 15°
- NSHEV approval to DIN EN 12101-2
- Optionally with double or triple glazing
- Lapped tile principle
- For modern industrial complexes and historic, listed buildings



- Fully outward-opening
- XXL NSHEV approval to DIN EN 12101-2 for top-hung windows
- Filigree all-glass effect
- Triple glazing
- For use as top-, side- and bottom-hung windows
- Burglar resistance class RC2 for top-hung windows
- Anti-trap protection up to VFF Safety Class 4



- Fully outward-opening
- Flush installation
- Down to 7° roof pitch
- Triple glazing
- Multi-part strip windows up to 4 m wide supplied ready-assembled
- Also suppliable as emergency exit windows
- For listed buildings, stick-system assemblies, sawtooth roofs or residential buildings

BESPOKE SOLUTIONS

- Insect or bird screens
- Position feedback (for louvre windows)
- Fall protection (for louvre windows)
- Magnetic contact with signal for "closed"
- Solar-control glazing
- Screen print (e.g. dot screen print)
- DGNB (German Sustainable Building Council) compliant design where agreed
- Other special solutions where agreed and technical feasibility check



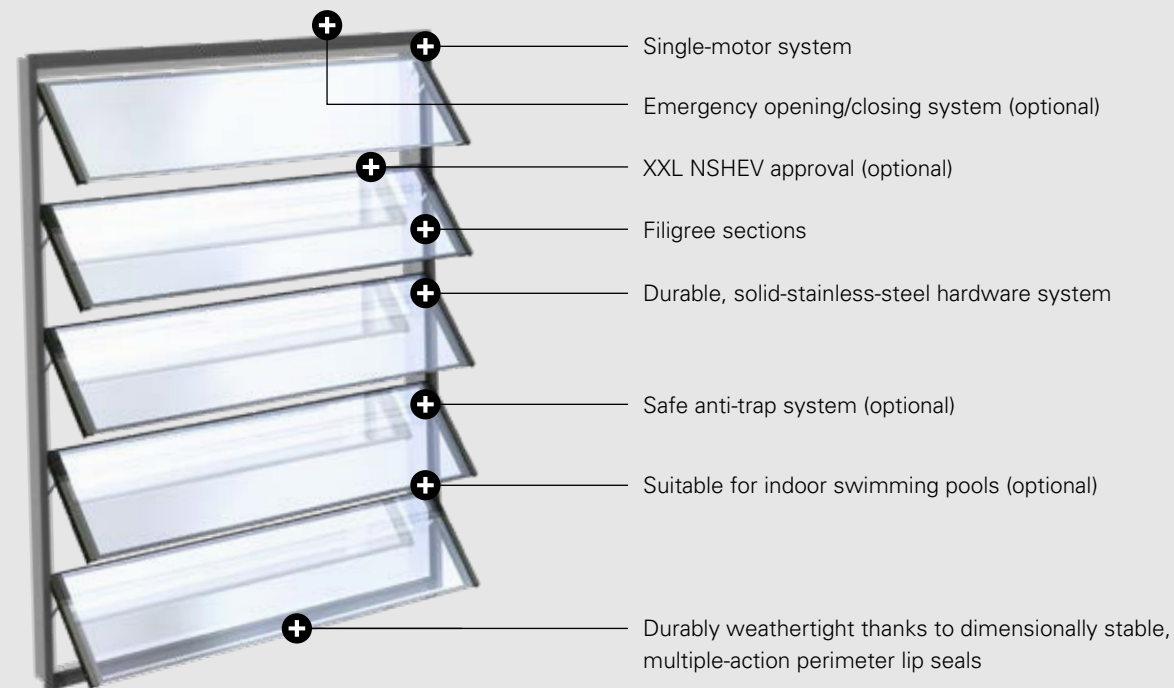


bigAir® Facade

Facade louvre windows

bigAir® louvre windows are system-independent. They can be installed in any stick-system assembly or timberwork structure. They are ideal for ventilating halls or other spaces and for use as large-area NSHEV (natural smoke and heat exhaust ventilators).

- Lacker's all-glass blades are always outward-tilting
- Maximum blade flatness
- Extra-filigree sections and weatherstripping
- Bottom edge as glass step
- Tight closing action through self-locking spindle mechanism and stainless-steel lever



STUTT GART

VECTOR INFORMATIK GMBH GLASS BRIDGE

ALL-GLASS EFFECT – CONTINUOUS EXTERNAL GLASS SCREEN



bigAir® Facade

Germany

Architect

SCHMELZLE+PARTNER MBB
ARCHITEKTEN BDA | D-72280 Hallwangen

Description

- Bridge construction with louvre windows
- 440 mm tall glass blades
- Solar-control double glazing
- Anti-trap function
- Partly fitted with incremental encoder





DUBLIN

GOETHE-INSTITUTE DUBLIN

BORDERLESS PRINTING – ENAMELLED



bigAir® Facade

Ireland

Architect

Henchion + Reuter Architects
Dublin

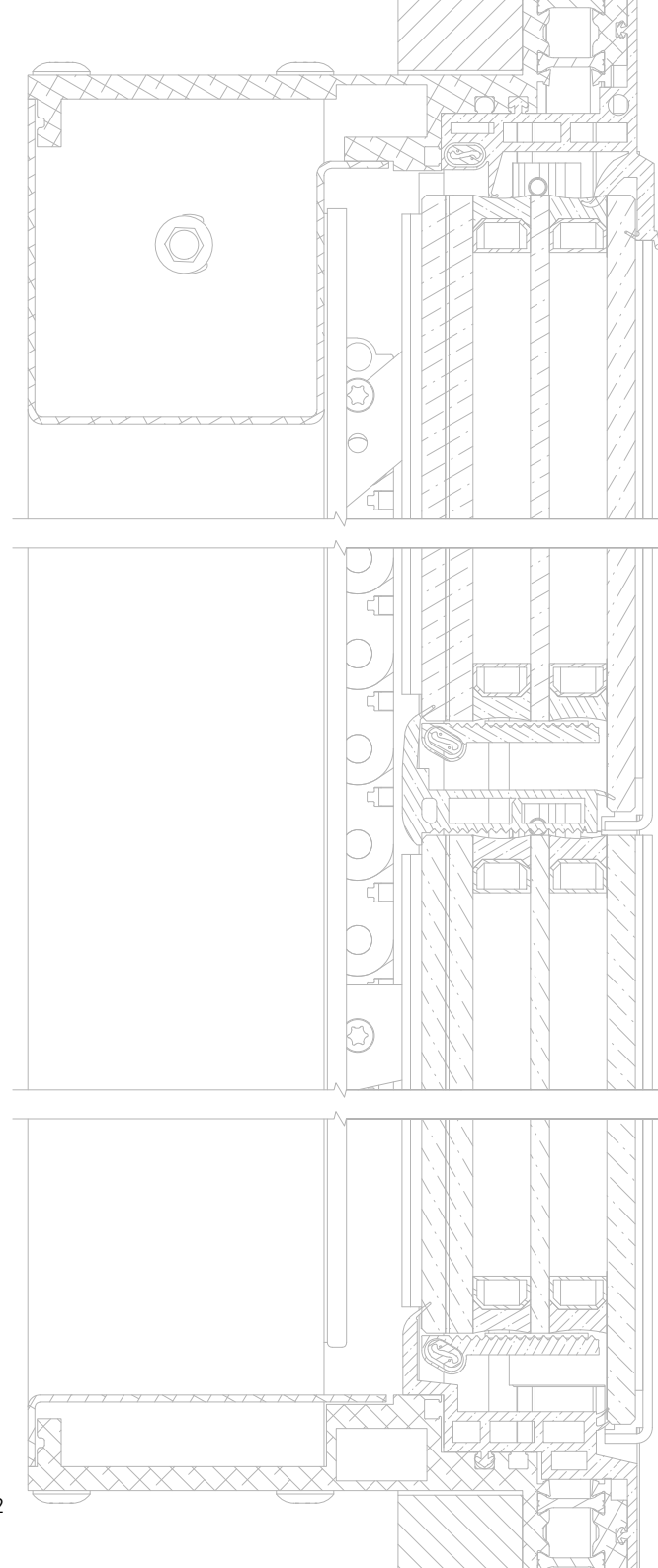
Project team

Duggan Systems Limited, Architectural Aluminium P.V.C. Contractors, Lurriga, Patrickswell, Co. Limerick
V94 X8N7 | Ireland

Description

- Partly triple glazing with copper-mesh interlayer
- Copper-colour screen print at step
- Special frame widening for structural glazing applications
- Toggle clips used to fix windows in structural glazing joints
- Glass blades secured only by small glass supports
- Fall protection by horizontal stainless-steel guard rails (also offering protection when blades are open)
- Partly with anti-trap protection to Safety Class 4 using contact strips
- Special "Analok 547" colour for internal frames
- Partly designed as NSHEV (natural smoke and heat exhaust ventilators) to DIN EN 12101-2





STRAUBING

TEACHING AND RESEARCH BUILDING FOR SUSTAINABLE CHEMISTRY

ALL-GLASS EFFECT IN TIMBER FACADES

 **bigAir® Facade**

Germany

Architect

Schuster Pechtold Schmidt
Architekten GmbH | D-80805 Munich

Project team

Hans-Jürgen Heigl | Holztechnik Heigl
D-93468 Miltach

Description

- Designed as NSHEV (natural smoke and heat exhaust ventilators) to DIN EN 12101-2
- Highly transparent, high glazing ratio
- Maximum anti-trap protection (Safety Class 4) using contact strips
- Solar-control triple glazing with low U_g value ($U_g=0.5 \text{ W/m}^2\text{K}$)
- DGNB (German Sustainable Building Council) conformity as required



SULZ

EDELSTAHLSERVICE SULZ GMBH NEW ADMIN BUILDING

FLUSH INSTALLATION – FULLY OUTWARD-OPENING WITH NO INTERNAL OBSTRUCTION



bigAir® Facade

Germany

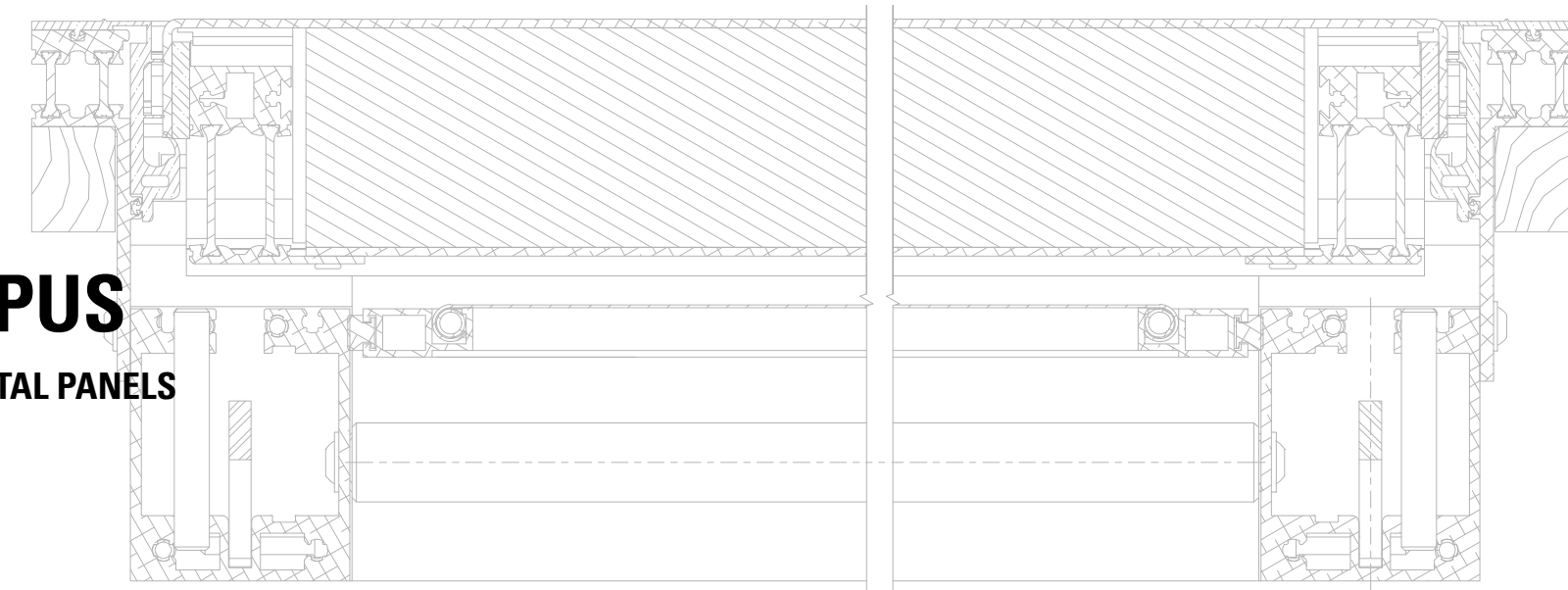
Architect
SCHMELZLE+PARTNER MBB
ARCHITEKTEN BDA
D-72280 Hallwangen

Description
Louvre windows with solar-/
thermal-control glazing

RADEVORMWALD

GIRA CAMPUS

INSULATED SHEET-METAL PANELS
CUSTOM FINISH
SMOKE EXTRACT
INSECT SCREEN



bigAir® Facade

Germany

Architect
sauerbruch hutton, gesellschaft von architekten mbh D-10557 Berlin

Description

- Window size approx. 1,045 x 4,220 mm (wxh)
- Flat aluminium-panel louvres for elegantly flush installation in stick-system curtain wall
- As NSHEV (natural smoke and heat exhaust ventilator) to DIN EN 12101-2
- Fully outward-opening blades
- External aluminium sheet of panels without visible edging strips
- Also usable for night cooling



DRESDEN

BSZ DRESDEN VOCATIONAL SCHOOL

CUSTOMIZED GLASS
IDENTICAL FIXED AND LOUVRE GLAZING

 **bigAir® Facade**

Germany

Project team

Bellmann GmbH
Alusysteme-Metallbau
D-09618 Brand-Erbisdorf

Description

- Louvre windows with solar-control double glazing
- Anti-trap function
- NCS frame colour



ESSEN

RATHAUS GALERIE ESSEN SHOPPING CENTRE

SINGLE-GLAZED WITH LSG – A WORLD OF GLASS!

 **bigAir® Facade**

Germany

Project team

Roschmann Konstruktionen aus Stahl
und Glas GmbH | D-86368 Gersthofen

Description

Single-glazed louvre windows incorporating LSG
(laminated safety glass) with all-glass effect



AUGSBURG

VINCENTINUM HEALTHCARE CENTRE

FLUSH – DESIGNER PRINT – TRANSPARENT OPENING



Germany

Project team

Roschmann Konstruktionen aus Stahl
und Glas GmbH | D-86368 Gersthofen

Description

- Louvre windows with screen/laser print
- Designed as vents with anti-trap
function using PrimeTec sensors





COVENTRY

UNIVERSITY OF WARWICK

XXL WINDOW HEIGHTS – MAXIMUM PROTECTION
THANKS TO ANTI-TRAP SAFETY CLASS 4

 **bigAir® Facade**

England

Architect
MCW architects | The Oast House
Malting Lane | Cambridge CB3 9HF

Project team
Bowmer + Kirkland Limited | High Edge Court |
Church Street | Heage | Belper
Derbyshire DE56 2BW | England

- Description**
- Louvre windows up to approx. 3,800 mm tall
 - Louvre windows with solar-control double glazing and louvre windows with aluminium panels
 - Partly designed for fall protection
 - Maximum anti-trap protection (Safety Class 4) using contact strips
 - With bird screens



FREUDENSTADT

WALDFABRIK

SMALL WINDOWS – MAXIMUM VENTILATION

 **bigAir® Facade**

Germany

Description

Insulating-glass louvre windows
in "tree house"





FREUDENSTADT

VOLKSBANK FREUDENSTADT

PHOTOVOLTAICS ALSO IN GLASS BLADES

 **bigAir® Facade**

Germany

Architect

Jarcke Architekten
D-72250 Freudenstadt

Description

Glass blades fitted with photovoltaic technology



DRESDEN

VITZTHUM GRAMMAR SCHOOL

PERFECT REFLECTION – MAXIMUM PRECISION

 **bigAir® Facade**

Germany

Project team

Metallbau Möller GmbH & Co. KG
D-99087 Erfurt

Description

- 3,436 mm tall louvre windows
- 9 all-glass blades
- Thermal-control double glazing
- Ball impact resistance
- Filigree 40 mm mullions



BASEL | PRATTELN

AQUABASILEA WATERWORLD

LOUVRE WINDOWS WITH IP67 RATING FOR INDOOR BATHS



bigAir® Facade

Switzerland

Project team

RUCH Griesemer AG | Bahnhofplatz 3
CH-6460 Altdorf

Description

Louvre windows in swimming baths with IP67-rated watertight drives and solar-control glazing

SCHRAMBERG

MAGNET FACTORY

MAGNETIC CONTACT – POSITION FEEDBACK – VENTILATION – SMOKE EXTRACT



bigAir® Facade

Germany

Architect

Stollbert Architekten GbR
D-78713 Schramberg

Project team

Münch Metallbau GmbH
D-78086 Brigachtal-Kirchdorf

Description

Louvre windows with solar-control triple glazing as NSHEV (natural smoke and heat exhaust ventilators) to DIN EN 12101-2

SWORDS | DUBLIN

DLR LEXICON LIBRARY

IDENTICAL GLASS TYPE TO FIXED GLAZING

 bigAir® Facade

Ireland

Architect
Louise Cotter, Carr Cotter & Naessens
Architects, 32 South Terrace, Cork,
Ireland

Project team
Gunn Lennon Fabrication Limited

- Description**
- 41 bigAir® Facade louvre windows with all-glass effect
 - Narrow mullions and invisible fixing in SG facade
 - Designed with solar-control double glazing



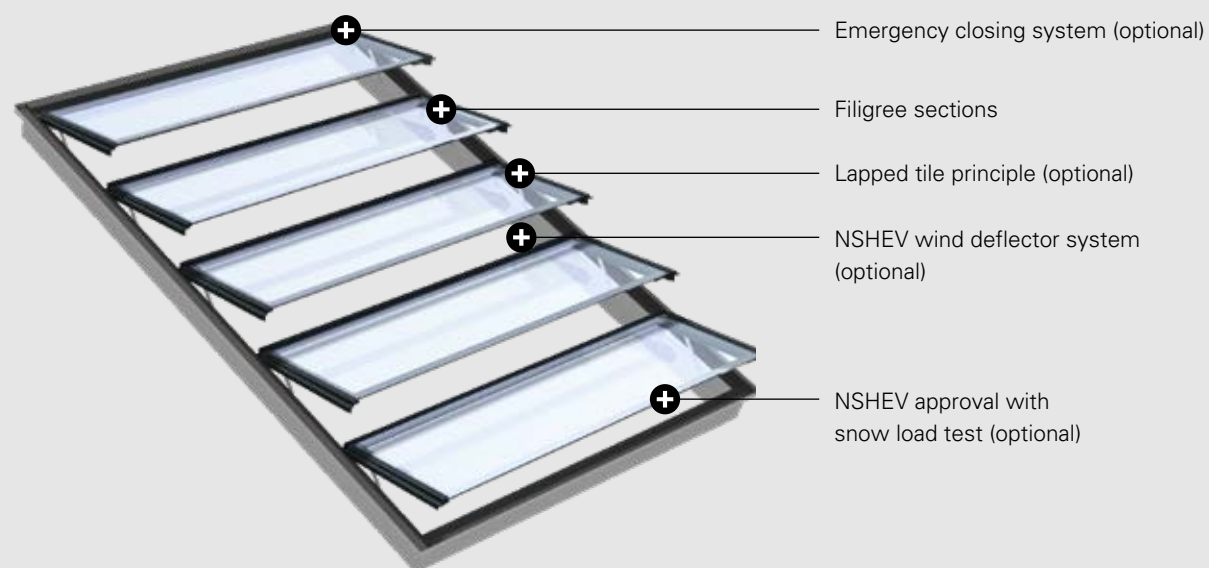


bigAir® Roof

Roof louvre windows

bigAir® Roof units are system-independent. They can be installed in any stick-system assembly, tile roofs and all other pitched roof types. They are ideal for ventilating halls and other spaces topped by roofs with pitches down to 15°.

- Glass blades not encroaching on internal space
- Fully outward-opening
- Glass blades lapped or flush
- Bottom edge as glass step
- Pane edges polished
- Glass always supported on two sides
- Black silicone perimeter weatherstripping with unobtrusive double-blade seal
- Concealed cables and drives



GÜTENBACH

GANTERHÄUSLE

UNFILTERED VIEW OF NATURE – PERFECTLY INTEGRATED



bigAir® Roof

Germany

Architect

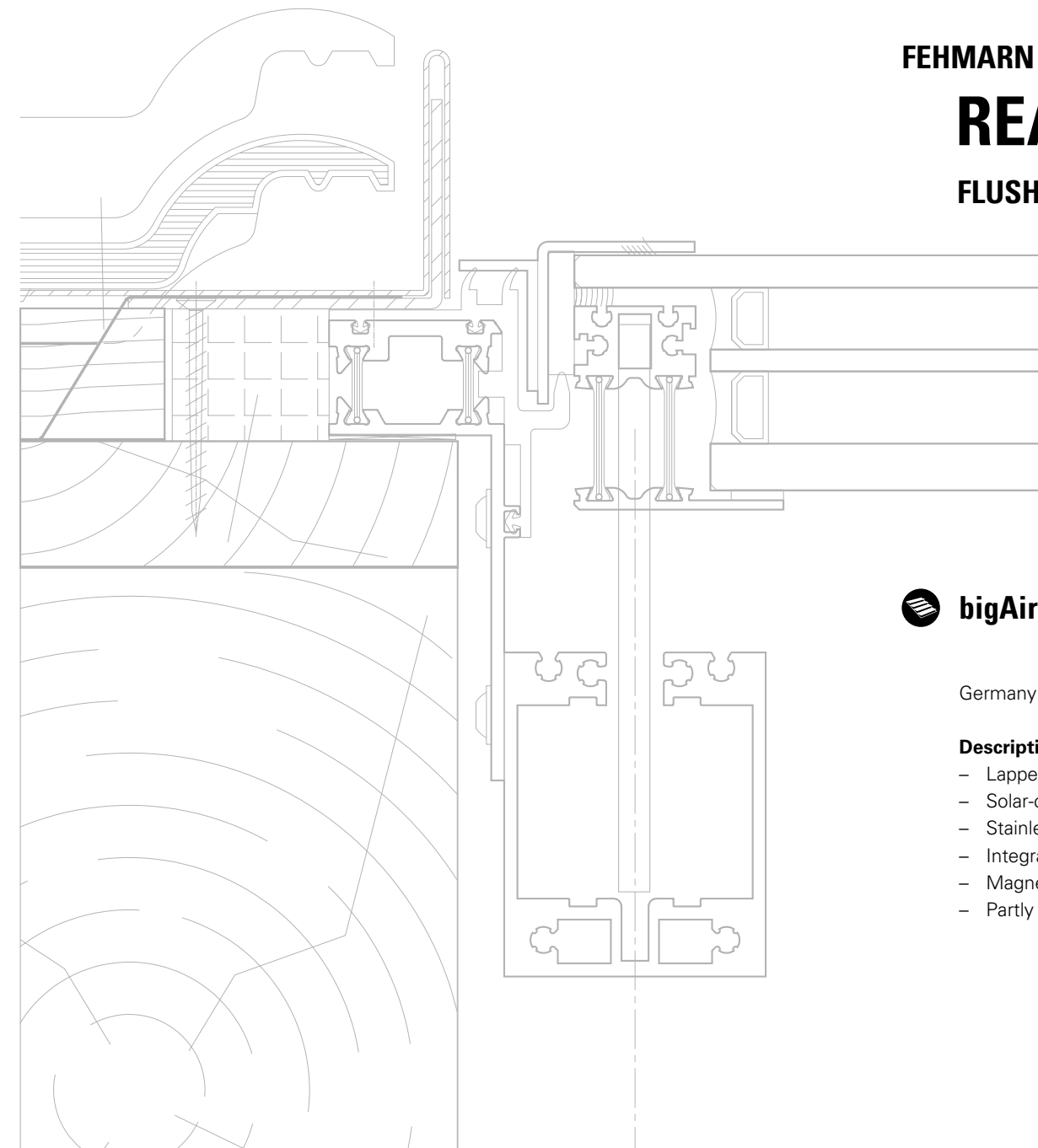
Happle Hardy Architekt | D-77709 Wolfach-Kirnbach

Project team

Holzbau Göppert GmbH | D-78141 Schönowald

Description

- 300-year-old forester's lodge at an altitude of 1,000 m
- Louvre windows in pitched roof
- Shingle roof covering



FEHMARN

REALSCHULE BURG

FLUSH INSTALLATION WITH ANGLE FRAME

 **bigAir® Roof**

Germany

Description

- Lapped arrangement of glass blades
- Solar-control triple glazing
- Stainless-steel frame for direct installation in tile roof
- Integrated insect screen
- Magnetic contact with signal for "closed"
- Partly with IP67-rated bigAir "Aqua" drives



HUSUM

SCHIFFBRÜCKE 8-9

BESPOKE BLADE HEIGHT – LAPPED – FLUSH – WIND & WEATHER



 **bigAir® Roof**

Germany

Project team

Heinrich Kersten Baugesellschaft GmbH
D-25853 Drelsdorf

Description

- 2 louvre windows measuring 2,200 x 3,000 mm (wxh), each with 8 glass blades, for ventilation and daylighting
- Solar-control triple glazing with $U_g = 0.5 \text{ W/m}^2\text{K}$
- Lapped arrangement of glass blades
- Special feature: louvre windows installed with blades aligned with steps of "stairway" roof
- Internal anti-trap protection using movement detectors

SINDELFINGEN

LUTZ SINDELFINGEN

INSTALLED BY ROOFER – HIDDEN FROM VIEW



bigAir® Roof

Germany

Project team

Zimmerei Joachim Held
Kolumbusstr. 11 | D-71063 Sindelfingen

Description

- Roof louvre window width 4,200 mm
- Lapped arrangement of glass blades
- Solar-control triple and thermal-control triple glazing
- Stainless-steel frame for direct installation in tile roof



WALDAU

RAINHOFMÜHLE

MINIMUM WEATHERSTRIPPING –
MAXIMUM WEATHERPROOFING



bigAir® Roof

Germany

Project team

Holzbau Göppert GmbH | D-78141 Schönowald

Description

- Extra-large roof louvre window measuring 3,670 x 1,600 mm (wxh)
- 2 centre mullions and 4 glass blades each
- Special thermal-insulation double glazing, designed for snow loads up to 2.8 kN/m²
- Designed with stainless-steel frame for flush installation



LÖFFINGEN

RATHAUS LÖFFINGEN

ALWAYS OUTWARD-OPENING – FILIGREE DESPITE LARGE SIZE



Germany

Architect
gäbele & raufer .architekten .
BDA | D-78166 Donaueschingen and
diarchitektur dominik ikic | freier architekt
D-79843 Löffingen

Project team
Zimmerei Fürderer | Rinkenburgerstr. 17
D-79822 Titisee-Neustadt

Description
3,000 x 2,000 mm (wxh) louvre windows with
"lapped" thermal-control glazing set against
imposing timber roof structure of listed town hall
(built approx. 1830)

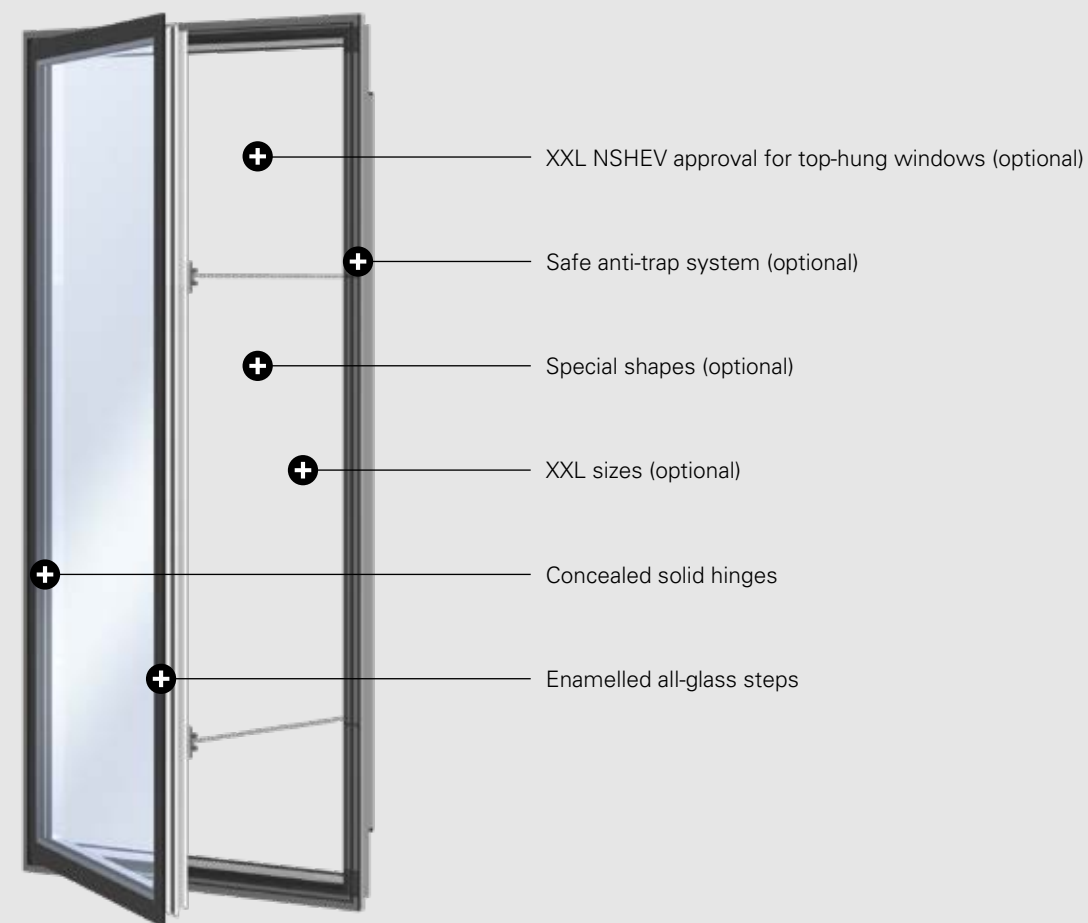




bigSwing

Top-, side- and bottom-hung windows

bigSwing top-, side- and bottom-hung windows are system-independent. They can be installed in any stick-system assembly or timberwork structure. Their elegant, filigree structural glazing look make them ideal for ventilating halls and other spaces.



COLOGNE

NEW-BUILD LABORATORY AND SERVICE BUILDING

HIDDEN HARDWARE – LARGE OR SMALL



bigSwing

Germany

Architect

Henn GmbH | Augustenstraße 54 | D-80333 Munich

Description

bigSwing top-hung NSHEV windows measuring up to 4,365 x 1,020 mm (wxh) with solar-control double glazing



LOSSBURG

ARBURG GMBH + CO KG

INVISIBLE WHEN CLOSED,
LIKE A FLOATING GLASS PLATE WHEN OPEN



bigSwing

Germany

Architect

SCHMELZLE+PARTNER MBB ARCHITEKTEN BDA
D-72280 Hallwangen

Description

Large bigSwing top- and side-hung windows with
solar-control triple glazing in SG facade

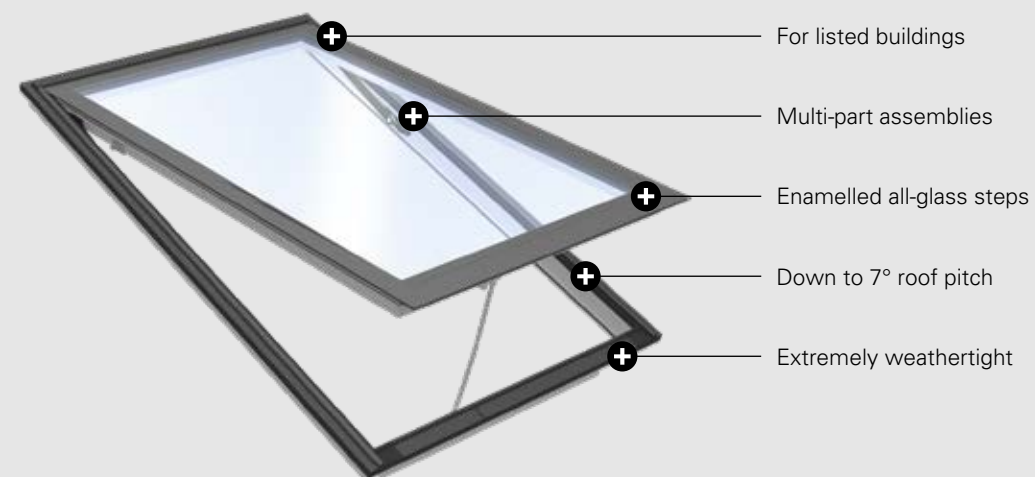




topSwing

Top-hung roof windows

Lacker's topSwing roof windows offer a delicately crafted, architecturally appealing, premium-quality daylighting and ventilation solution for attic conversions. topSwing is suitable for roof pitches down to 7°.



TÜBINGEN

NECKARHALDE BUILDINGS

FLUSH INTEGRATION ON CONSERVATION PROJECT



topSwing

Germany

Description

- Buildings in historic core of city near Hohentübingen Castle
- Fitted in beavertail tile roof



FLensburg

HOTEL HAFEN FLensburg

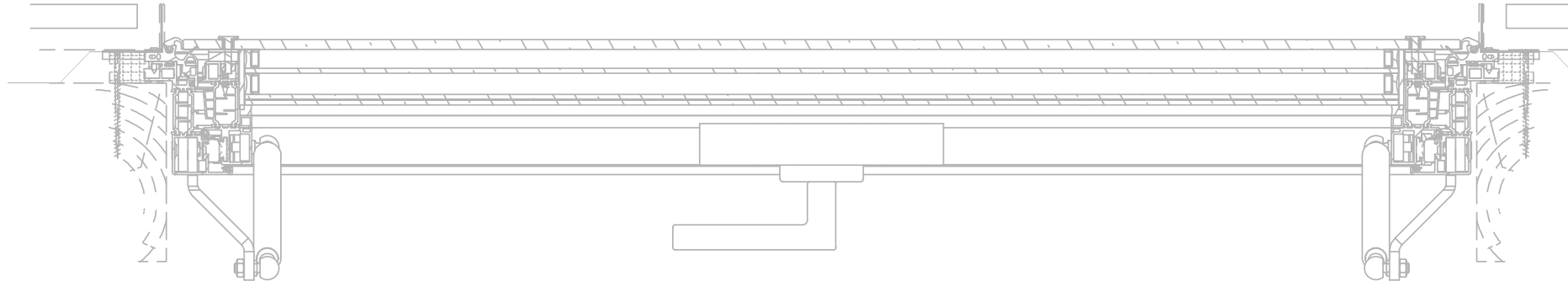
XXL MANUAL OPENING – VIEW OF FLensburg FIRTH –
FLUSH WITH ROOF



Germany

Project team
JACOB CEMENT BAUSTOFFE | Jacob Sönnichsen AG
D-24937 Flensburg

- Description**
- Two-part topSwing window
 - Fitted flush in slate roof
 - Use as exit window also possible





LACKER-WINDOWS ARE UNIQUE

FILIGREE – WEATHERTIGHT – SAFE – FLUSH – CUSTOM-MADE

IMAGE CREDITS

Pages	Photographer
01–39	LACKER GmbH
40–41	Bernhard Strauss
	LACKER GmbH (third photo on the left)
42–43	LACKER GmbH
44	Steffen Schrägle
45–50	LACKER GmbH

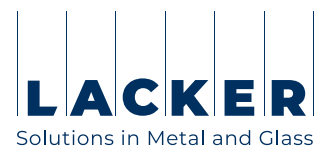
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PUBLISHER

LACKER GmbH
Schellenbergstraße 1
D-72178 Waldachtal
Tel +49 74 43 96 22-0
fenstertechnik@lacker.de
www.lacker.de

DESIGN AND LAYOUT

Weiserdesign
kontakt@weiser-design.de
www.weiser-design.de



LACKER GmbH | Schellenbergstraße 1 | D-72178 Waldachtal
Tel +49 74 43 96 22-0 | Fax +49 74 43 96 22-44 | fenstertechnik@lacker.de | www.lacker.de

