rp technik



rp fineline

Filigrane Fenster, Türen und Trennwände aus Stahl

Filigree windows, doors and partitions made of steel



Die Freiheit der Architektur

Freedom of architecture

Unser Anspruch ist höchste Qualität. Seit mehr als 60 Jahren entwickeln und produzieren wir Stahlsysteme für Fenster, Türen und Fassaden – mit handwerklichem Geschick und einer Menge Know-how. Bei unseren Produktlösungen setzen wir auf den vielseitigen Werkstoff Stahl und verbinden auf diese Weise ansprechende Ästhetik mit höchster Belastbarkeit. Sowohl Planer als auch Metallbauer profitieren von unserer jahrzehntelangen Erfahrung – und erhalten neben überzeugender Qualität einen maximalen gestalterischen Freiraum. Oder wie wir es nennen:
Die Freiheit der Architektur.

Our goal is top quality. We have been developing and producing steel systems for windows, doors and facades for more than 60 years - with craftsmanship and a great deal of know-how. In our product solutions we rely on the versatile material steel and in this way combine appealing aesthetics with maximum resilience. Both planners and metal manufacturers benefit from our decades of experience - and, in addition to convincing quality, are given a maximum in design freedom. Or as we call it:
Freedom of architecture.



100% Fortschritt Improvement

rp fineline –
entwickelt nach modernsten Standards

Gestalten Sie mit rp fineline einzigartige Lebensräume und kreieren Sie ein authentisches, historisch nachempfundenes Ambiente, gepaart mit zeitloser Eleganz und Langlebigkeit.

Erleben Sie den urbanen Charme von Loft-Wohnungen und empfinden Sie den historischen Industriecharakter nach. Realisieren Sie den modernen Bauhaus-Stil oder erwecken Sie die klassische Eleganz von historischen Gebäuden zu neuem Leben. Die feingliedrigen und schmalen Stahlprofile eignen sich ideal für den Einsatz in denkmalgeschützten Gebäuden oder in Häusern mit erhaltenswerter Bausubstanz. Verwirklichen Sie Ihre eigenen Ideen – rp fineline bietet Ihnen die Möglichkeit, individuelle Wohnatmosphären zu gestalten.

rp fineline –
developed according to the latest standards

Use rp fineline to design unique living spaces and create an authentic, historically influenced ambience, paired with timeless elegance and longevity.

Experience the urban charm of loft apartments and recreate their historical industrial character. Create a modern take on Bauhaus style or revive the classic elegance of historical buildings. The slender and narrow steel profiles are ideally suited for use in listed buildings or in houses that are worth preserving. Bring your own ideas to life – rp fineline makes it possible for you to fashion your own unique living environments.





rp fineline 70W
Eiffel-Gebäude, Maastricht/NL

Architekten / Architects:
Braaksma & Roos Architekten,
Maastricht

© Jonathan Vos Photography



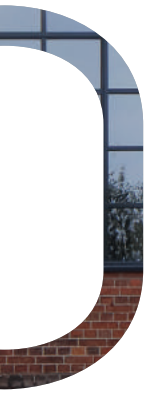
© Conné van d' Grachten



Gefühl für eine behutsame Adaptierung historischer Werte: Von der Gründerzeitvilla bis zum Industriekomplex.

A feeling for the meticulous adaptation of historical quality: from Wilhelminian-style villas to industrial complexes.

100% Vielfalt Versatility





© Conne van d' Grachten

Wer „Loft“ sagt, muss auch „RP Technik“ sagen.

When you think “loft”, think “RP Technik”.



100% großzügig generous



100% Qualität Quality

rp fineline – ermöglicht die Synthese von Kunst und Handwerk von Klassik bis Bauhaus.

rp fineline – brings together art and craft, from classical to Bauhaus styles.





rp fineline 70W
Villa Waldhaus, Berlin

Architekt / **Architect:**
Architekt Linkersdorf;
Theodor Wenzel Werk Berlin



© Fotodesign Andreas Braun, Hameln



100% elegant sophisticated



Zeitlose, klassische Eleganz, die im Gedächtnis bleibt.

Timeless, classical elegance – forever unforgettable.





rp fineline 70W

Orangerie Tuin de Lage Oorsprong,
Oosterbeek, NL

Architekt / **Architect:**
GAAV Architural Engineers,
Apeldoorn NL



Ihre Vorteile im Fokus

Schmalste Profile vereint mit ausgezeichneten Wärmedämmeigenschaften

DESIGN

Die unendliche Vielseitigkeit von Stahl ermöglicht den Einsatz sowohl in traditioneller als auch in zeitgenössischer Architektur – im Außenbereich oder im Inneren des Gebäudes.

GESTALTUNGSFREIHEIT

Erfahren Sie nahezu grenzenlose Freiheit für Ihre Ideen. In der Gestaltung erlaubt das Material Stahl größtmögliche Spannweiten bei idealen statischen Werten. Die Gesamtästhetik wird durch passgenaues Zubehör wie Schlosskästen, Schwellen und Griffe abgerundet – ein System aus einem Guss!

TRANSPARENZ

Extrem schlanke Stahlprofile mit minimalen Ansichtsbreiten schaffen Transparenz, kreieren somit eine lichtdurchflutete Wohnatmosphäre und sorgen nebenbei für ein angenehmes Raumklima.

NACHHALTIGKEIT

Stahl als Werkstoff überzeugt durch seine lange Haltbarkeit über Jahrzehnte hinweg, die vielen anderen Materialien deutlich überlegen ist. Gleichzeitig ermöglicht Stahl dank der guten statischen Eigenschaften einen reduzierten Materialeinsatz und kann nach der Nutzung verlustfrei recycelt werden.





Advantages in focus

The narrowest profiles with excellent thermal insulation properties

DESIGN

The endless versatility of steel allows it to be used in both traditional and contemporary architecture – outside or inside the building.

DESIGN FREEDOM

Experience almost limitless freedom for your ideas. In terms of design, the material steel allows the largest possible spans with ideal static values. The overall aesthetics are rounded off by custom-fit accessories such as lock cases, thresholds and handles – a homogenous system.

TRANSPARENCY

Extremely slim steel profiles with minimal face widths create transparency, thus generating a light-flooded living environment and also ensuring pleasant ambient conditions.

SUSTAINABILITY

Steel as a material impresses with its long durability over decades, which is clearly superior to many other materials. At the same time, steel enables reduced material use thanks to its good static properties and can be recycled without loss after use.

rp fineline 70





© Fotodesign Andreas Braun, Hameln

100% Flexibilität
Flexibility



Video:
rp-technik.link/151

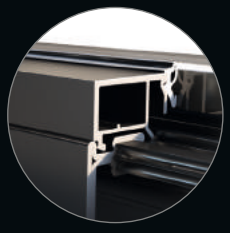


Individualität ist Trumpf: Fünf verschiedene Glasleisten bieten eine hohe Flexibilität bei der Gestaltung – wie die schräge, dem Look eines mit Kitt verglasten Fensters nachempfundene, Variante. Gerade bei denkmalgeschützten Gebäuden lässt sich so eine authentische, historische Optik erreichen. Mit den eingeschwenkten L-förmigen Glasleisten der rp fineline 70 ohne sichtbare Verschraubung kann ein stark reduziertes Design realisiert werden. Drei quadratische Geometrien, welche die Flügeldetails klassisch flächenbündig, mit einem Flächenversatz oder einer Kontur akzentuieren, runden die breite Auswahl optimal ab.

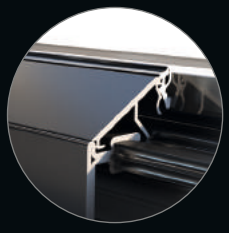
Individuality is the key: Five different glazing beads offer a high degree of flexibility in the design – such as the inclined version that mimics the look of a putty-glazed window. An authentic, historic look can be achieved in this way, especially in listed buildings. The swivelled-in L-shaped glazing beads of the rp fineline 70 without visible screw connections enable a greatly reduced design to be achieved. Three square geometries, which accentuate the sash details – classically flush with the surface, with a surface offset or a contour – optimally round off the wide selection.



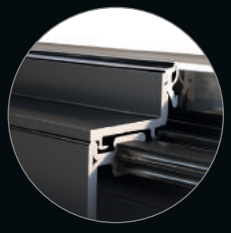
Glasleiste Standard
Standard glazing bead



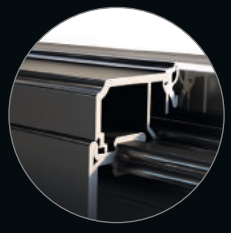
Glasleiste Versatz
Offset glazing bead



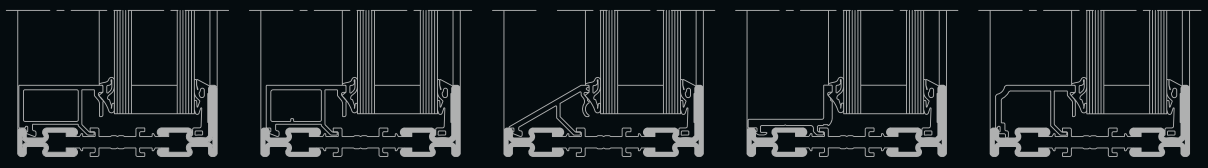
Glasleiste Schräg
Inclined glazing bead



Glasleiste Winkel
Angled glazing bead



Glasleiste Kontur
Contoured glazing bead





Wählen Sie aus drei verschiedenen Design-Varianten zur Integration des Schlosskastens in die Tür: Gradlinig eingefasst in horizontale oder vertikale Sprossen – oder eine besonders reduzierte Variante ohne Sprossen nur mit einem Glasausschnitt.

Choose from three different design options for the integration of the lock case into the door: Enclosed by either transoms or a mullion – or left without transoms or mullions with a simple glass cut-out for a particularly minimalistic look.

100% Spielraum
Scope





Video:
rp-technik.link/156



© Fotodesign Andreas Braun, Hameln

rp fineline
Energiefabrik Knappenrode,
Hoyerswerda

Architekt / **Architect:**
Bauplanung Hille, Bautzen




45 mm
CREDIT CARD
4000 1234 5678 9010
GOOD THRU 3/23
YOUR NAME HERE



100% filigran filigree

Schmaler als eine Kreditkarte! Mit rp fineline 70D steht ein schmales, thermisch getrenntes Stahltür-System mit Gesamtansichtsbreiten von nur 45 mm (Flügel/Rahmenkombination) für den hochwertigen Wohnungsbau und die Renovierung denkmalgeschützter Gebäude zur Verfügung.

Slimmer than a credit card! rp fineline 70D provides a slender, thermally separated steel door system with total sightlines of just 45 mm (sash/frame combination) for high-quality residential construction and the renovation of listed buildings.





100% griffig in hand

Alles im Griff! Die Fenstergriffe und Türdrücker für rp fineline lassen keine Wünsche offen. Aktuelle Designlinien mit puristischer Optik in Stahl, Edelstahl oder Aluminium gehen eine perfekte Symbiose mit den filigranen Profilen ein. Aufliegende Beschläge mit klassischen oder verspielt nostalgischen Formen greifen die Stilelemente historischer Bauwerke gekonnt auf und eignen sich bestens für die Renovierung.

Everything under control. The window and door handles for rp fineline leave nothing to be desired. Current design lines with a purist look in steel, stainless steel or aluminium form a perfect symbiosis with the filigree profiles. On the other hand, overlaying fittings with classic or playfully nostalgic forms skilfully take up the stylistic elements of historical buildings and are ideally suited for renovation.

rp fineline 70

Fenstergriffe für verdeckt liegende Beschläge
Window handles for concealed fittings

Josh



Edelstahl matt
Stainless steel
RF1931042



Schwarz matt
Black matte
RF1931044



Aluminium
RF1931040

abschließbar / lockable



Edelstahl matt
Stainless steel
RF1931043



Schwarz matt
Black matte
RF1931045



Aluminium
RF1931041

Bern



Edelstahl matt
Stainless steel
RF1931022



Schwarz matt
Black matte
RF1931024



Aluminium
RF1931020

abschließbar / lockable



Edelstahl matt
Stainless steel
RF1931023



Schwarz matt
Black matte
RF1931025



Aluminium
RF1931021

Highland



Edelstahl matt
Stainless steel
RF1931032



Schwarz matt
Black matte
RF1931034



Aluminium
RF1931030

abschließbar / lockable



Edelstahl matt
Stainless steel
RF1931033



Schwarz matt
Black matte
RF1931035



Aluminium
RF1931031

Essential Line



Edelstahl matt
Stainless steel
RF1931036

abschließbar / lockable



Edelstahl matt
Stainless steel
RF1931037

Auch als Türdrücker erhältlich:
Also available as door handles::



Edelstahl matt
Stainless steel
RF2431038

Türgriffe
Door handles

Josh



Edelstahl matt
Stainless steel
RF2431046



Schwarz matt
Black matte
RF2431047



Aluminium

RF2431045

Bern



Edelstahl matt
Stainless steel
RF2431026



Schwarz matt
Black matte
RF2431027



Aluminium

RF2431025

Highland



Edelstahl matt
Stainless steel
RF2431036



Schwarz matt
Black matte
RF2431037



Aluminium

RF2431035

Turn

Kombinierbar mit „Highland" Fenstergriffen!
Combinable with „Highland" window handles!



Edelstahl matt
Stainless steel
RF2431016



Schwarz matt
Black matte
RF2431017



Aluminium

RF2431015

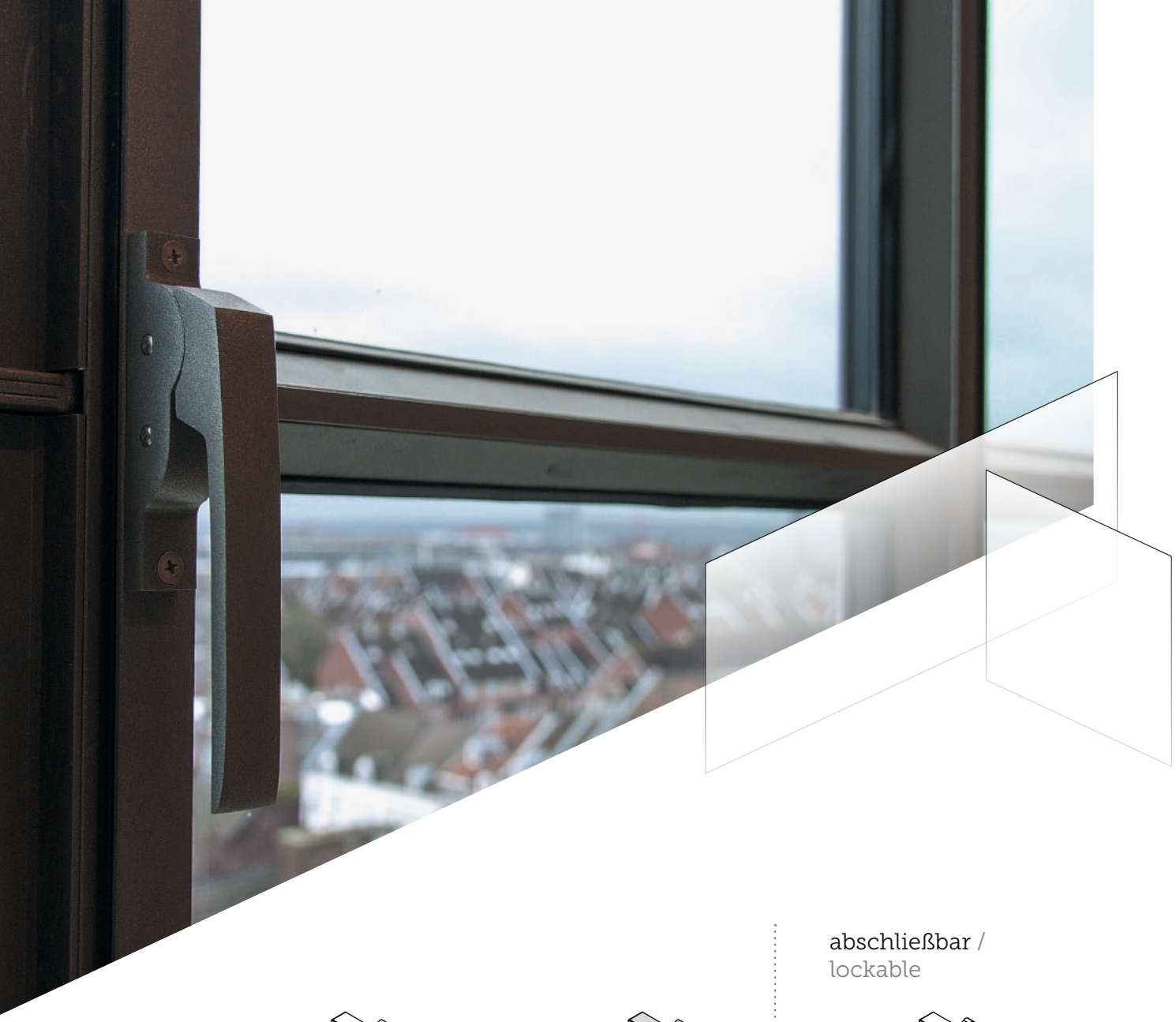
Weitere Varianten finden Sie online!
You can find more options online!

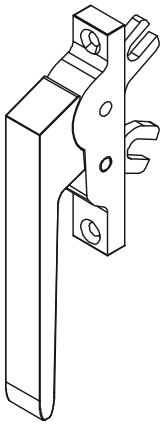
https://rp-technik.link/handles



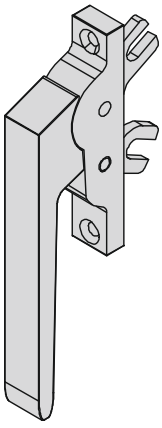


Ausführung „Josh“, schwarz matt
Model „Josh“, black matte





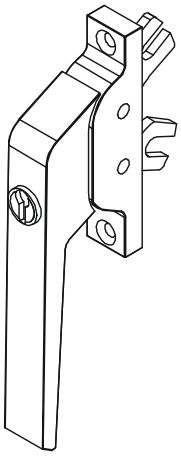
Aluminium
natur eloxiert (beschichtbar)
with a clear anodised finish
(coatable)
RF9130041-51N



Schwarz matt
Matte black

RF9130045-51N

abschließbar /
lockable

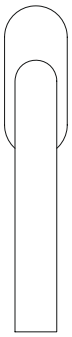


Aluminium
natur eloxiert (beschichtbar)
with a clear anodised finish
(coatable)
RF9130051-51N

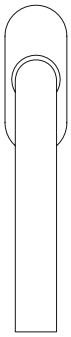
Hebelgriff für Drehflügel und Stulpflügel
Lever handle for side-hung and double-vent windows

Standard-Fenstergriffe für verdeckt liegende Beschläge
Standard window handles for concealed fittings

Optional für Dreh- und Stulpflügel
Optional for side-hung and double-vent windows



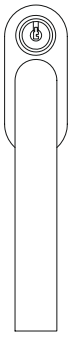
Edelstahl fein matt
Brushed stainless steel matte
RX868400



Aluminium

RX868671

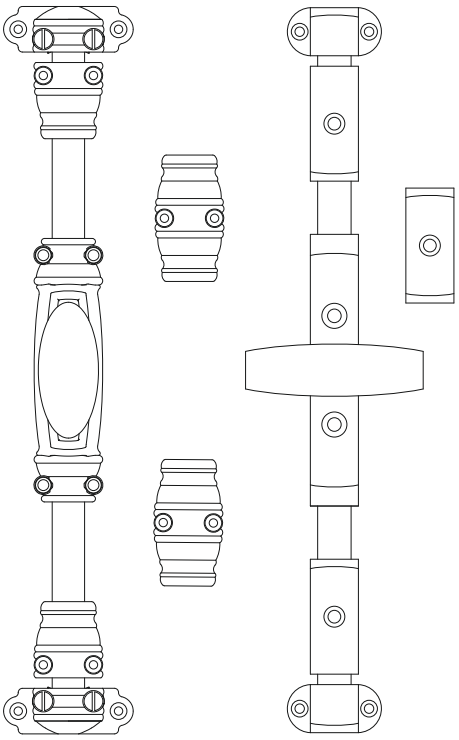
abschließbar /
lockable



Edelstahl fein matt
Brushed stainless steel matte
RX805344



Aufliegende Beschläge
Overlaying fittings





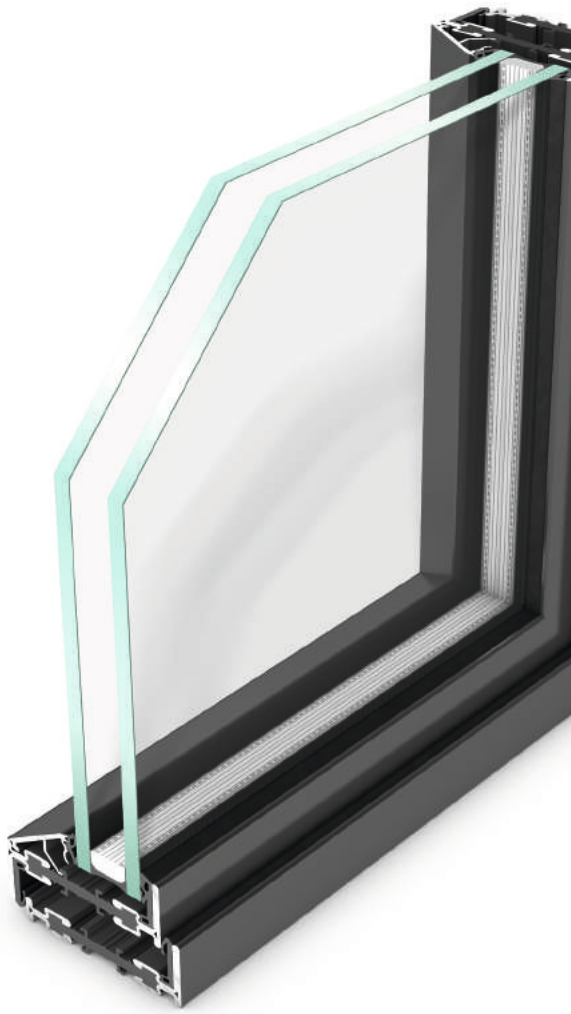


© Nicolaj Georgiew



rp fineline 70

Filigranes Stahlsystem für Fenster und Türen
Slim steel system for windows and doors



In jeder RAL-Farbe beschichtbare Bänder:
Hinges that can be coated in any RAL colour:





- Stahl, Edelstahl, Aluminium
  Steel, stainless steel, aluminium
- Anschraub- und Anschweißbänder für Fenster
  Screw-on and weld-on hinges for windows
- Verstellbare Rollentürbänder
  (Ø 15 mm, max. 160 kg)
  Adjustable barrel hinges
  (ø 15 mm, max. 160 kg)





rp fineline 70W

Wärmegedämmte Stahlfenster
Thermally insulated steel windows





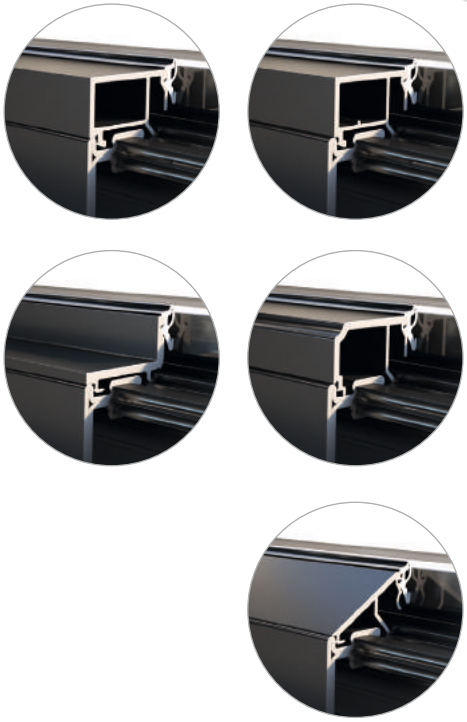
Schlosskästen für alle Designvarianten
Lock cases for all design variants



Extrem schmale Ansichtsbreite
Extremely slim face width

Video:
rp-technik.link/152





Glasleisten mit Ecken und Kanten
Glazing beads with angles and borders

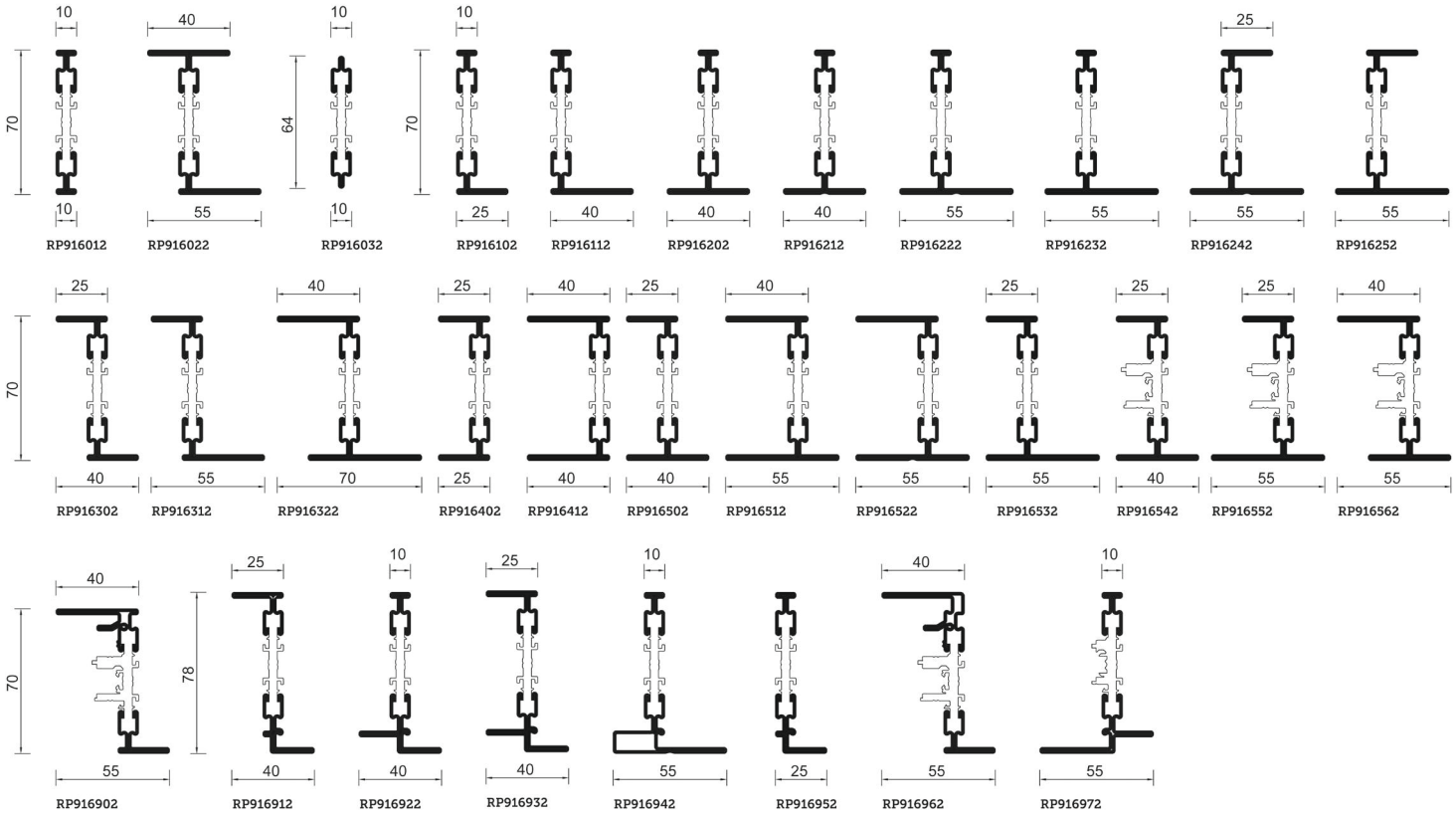


Schwellen für alle Gegebenheiten
Thresholds for all situations

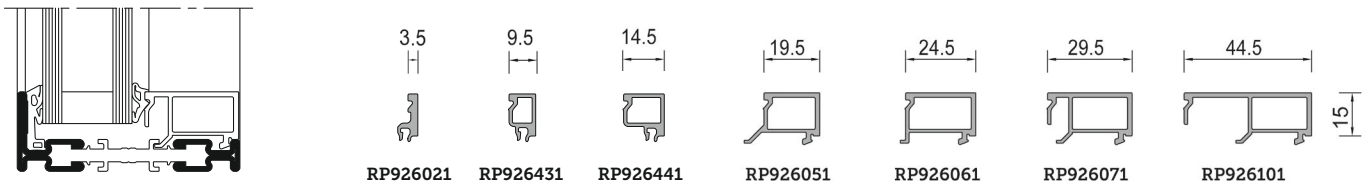
rp fineline 70D

Wärmegedämmte Stahltüren
Thermally insulated steel doors

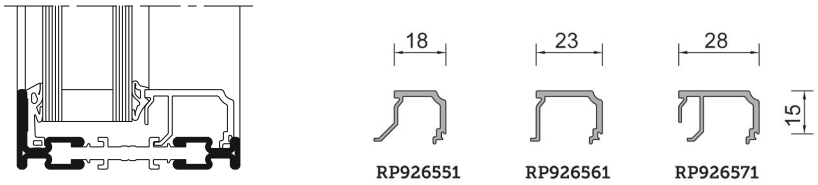
Systemübersicht
System overview



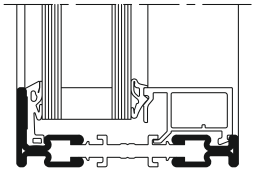
Glasleiste Standard
Standard glazing bead
(flächenbündig/flush surface)

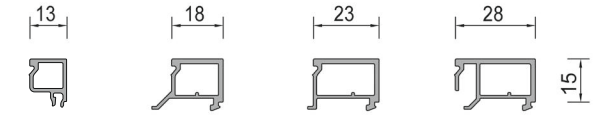


Glasleiste Kontur
Contoured glazing bead



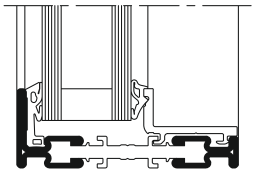
Glasleiste Versatz
Offset glazing bead

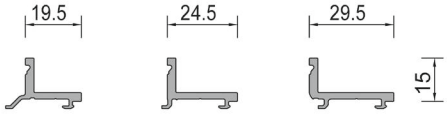




RP926421 RP926151 RP926161 RP926171

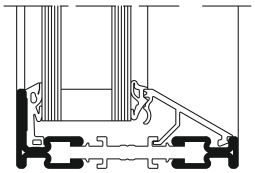
Glasleiste Winkel
Angled glazing bead





RP926651 RP926661 RP926671

Glasleiste Schräg
Inclined glazing bead



RP926381 RP926391 RP926401





rp fineline 70W
Herzogin Garten, Dresden

Architekt / **Architect:**
Matthias-Maria Kolb GmbH & Co. KG

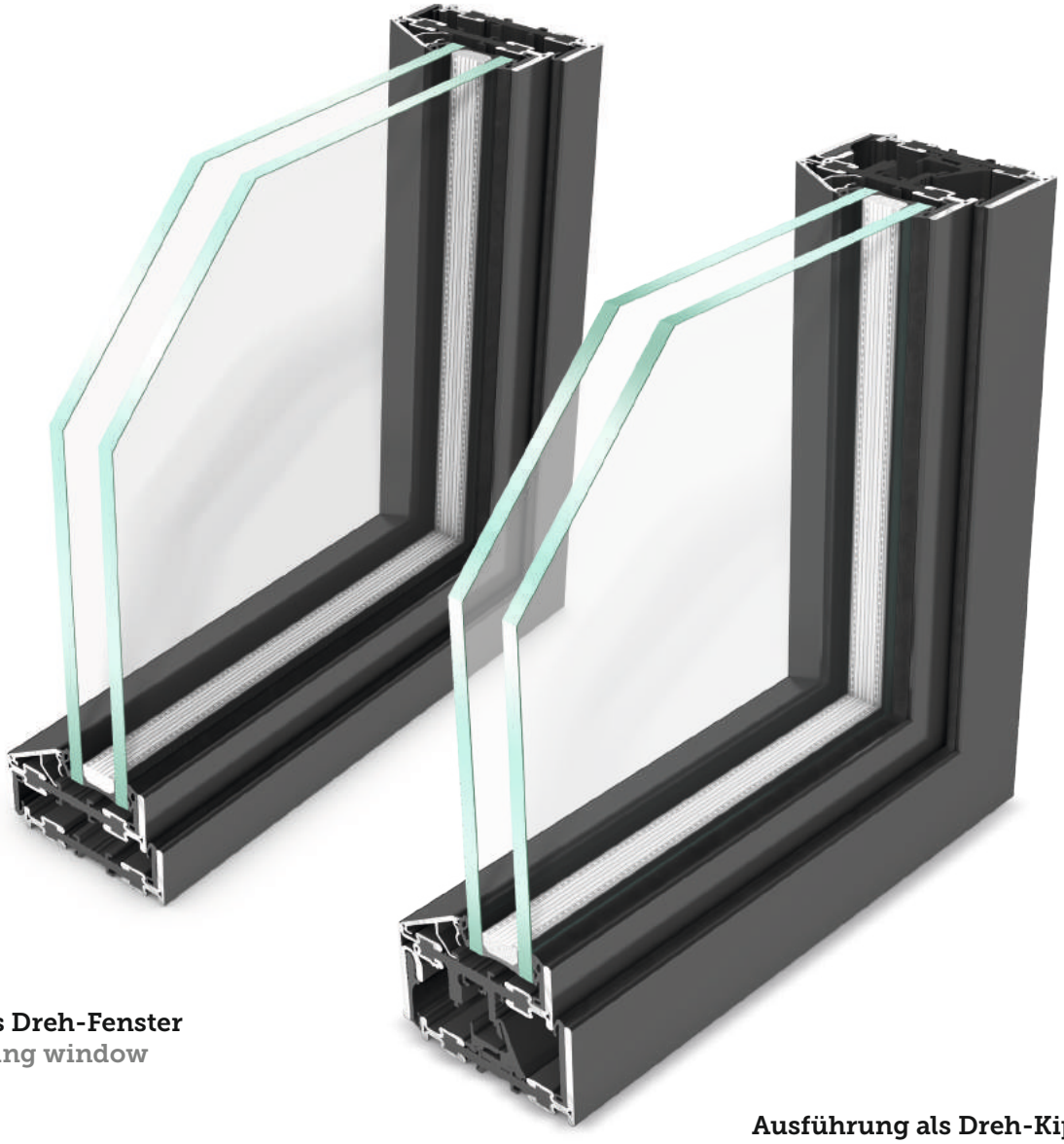


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rp fineline 70W

Wärmegedämmte Stahlfenster
Thermally insulated steel windows

3D-View:
rp-technik.link/157

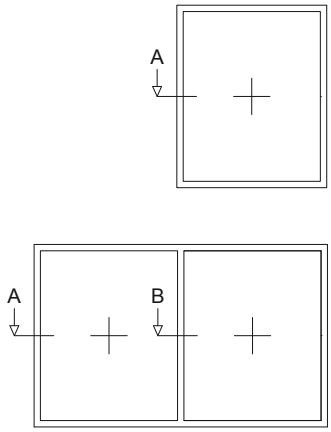


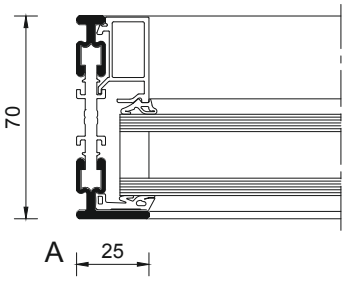
Ausführung als Dreh-Fenster
Model: Side-hung window

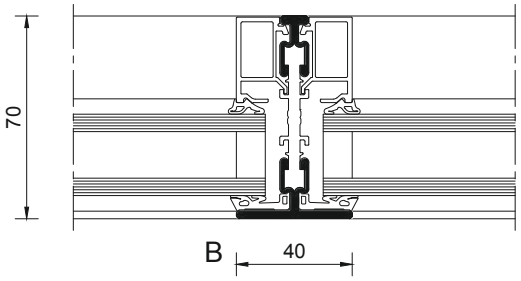
Ausführung als Dreh-Kipp-Fenster
Model: Turn/tilt window

Widerstandsfähigkeit bei Windlast Resistance under wind load	**≤ C5 / B5**
Luftdurchlässigkeit Air permeability	**≤ 4**
Schlagregendichtheit Watertightness	**≤ E900**
Stoßfestigkeit Impact strength	**1**
Einbruchhemmung Burglar resistance	**RC2 (Dreh-Kipp, Festverglasung)** **RC2 (Turn/tilt, fixed glazing)**
Wärmedurchgangskoeffizient Thermal transmittance	**$U_f \geq 1{,}5$ W/m²K**
Schallschutz Sound insulation	**≤ 50dB**
Dauerfunktionsprüfung Continuous performance test	**≤ 4**
Mechanisches Leistungsverhalten Mechanical performance	**Anforderung der Klasse CW / TC 2 / A erfüllt** **Requirements of Class CW / TC 2 / A fulfilled**
Mechanische Festigkeit Mechanical strength	**4**

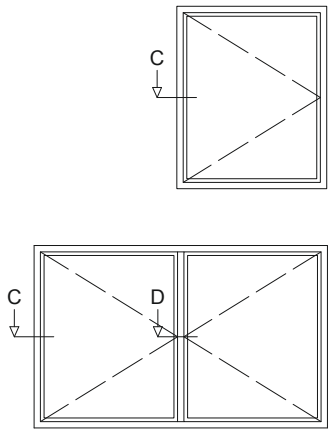
Systemschnitte
Sections

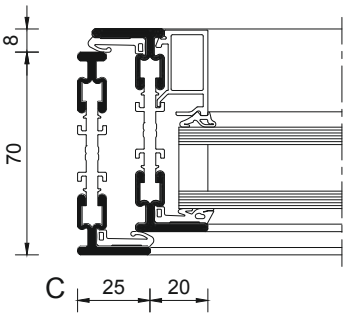


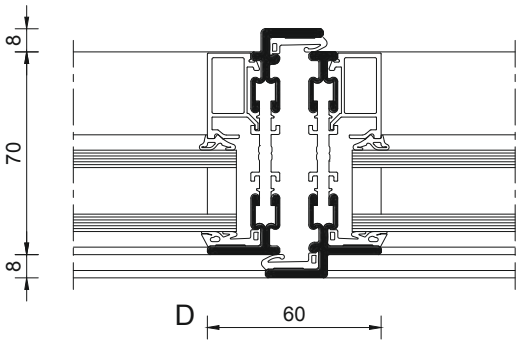




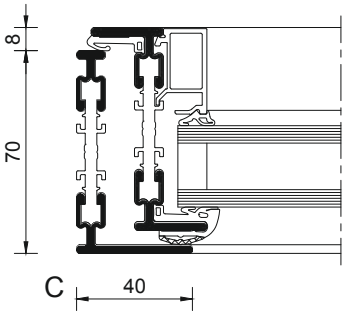
Fixverglasung
Fixed glazing

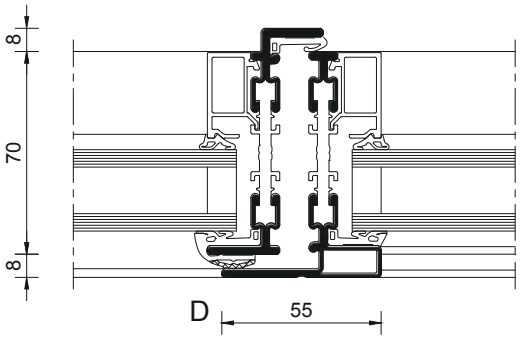




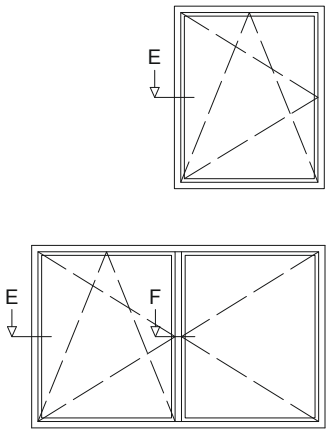


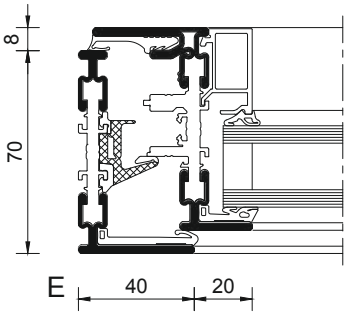
Flügel Standard
Standard sash

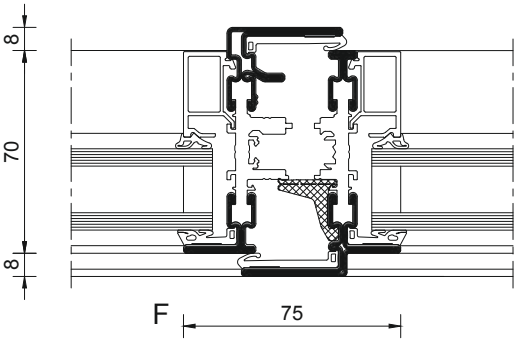




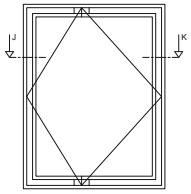
Flügel verdeckt
Concealed sash

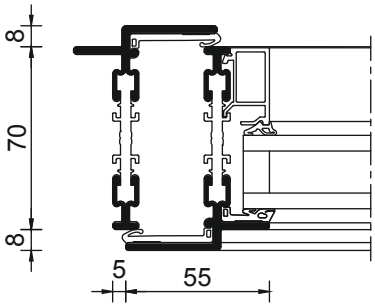


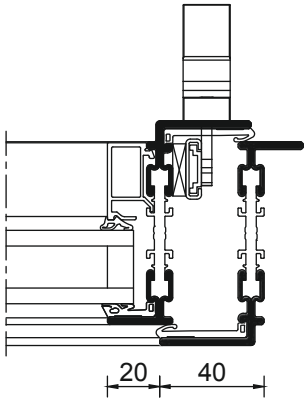




Flügel mit Euronut
Sash with Euro grooving

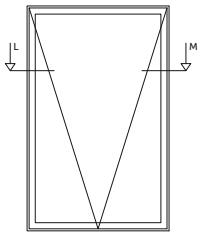




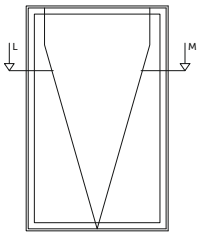


Flügel Wendefenster
Vertical pivot window sash

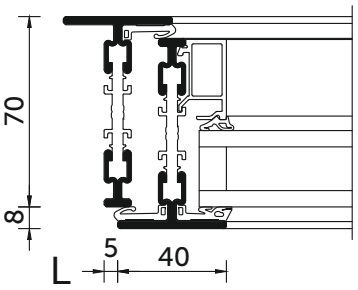
Systemschnitte
Sections

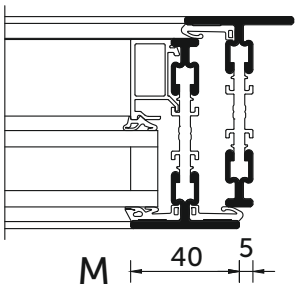


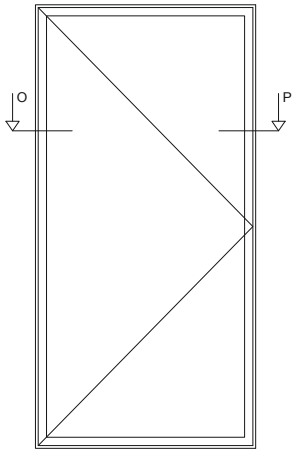
Klappfenster auswärts öffnend
Top-hung window outward opening



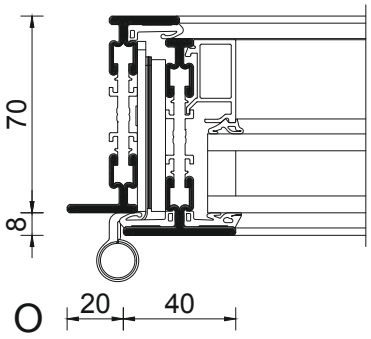
Senk-Klapp-Fenster auswärts öffnend
Projected top-hung window outward opening

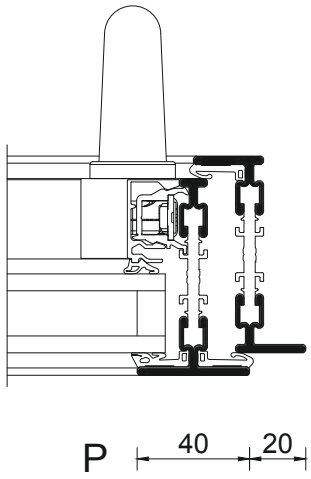




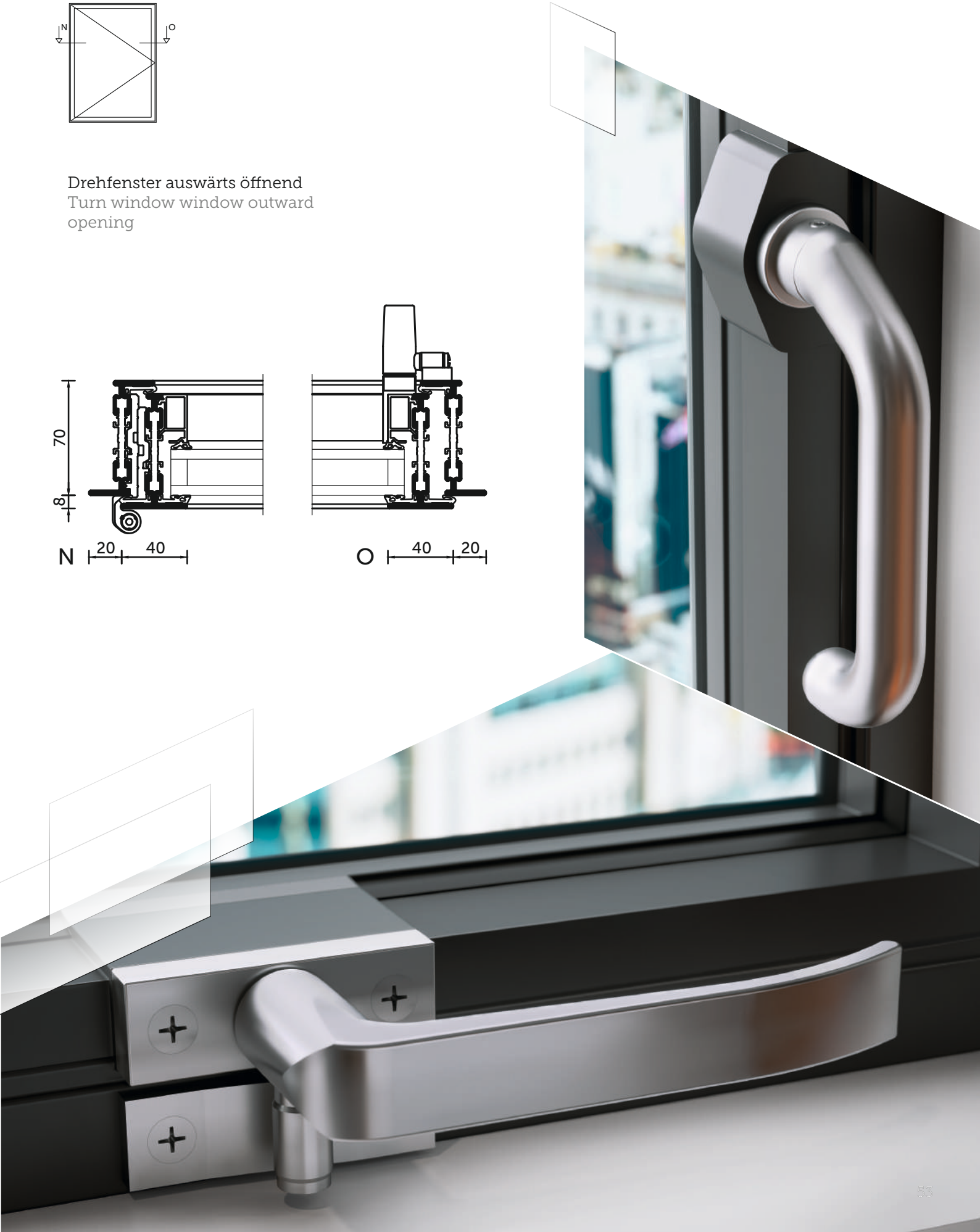


Fenstertür auswärts öffnend
French window outward opening





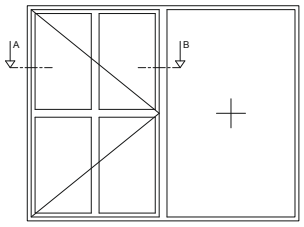
Drehfenster auswärts öffnend
Turn window window outward opening



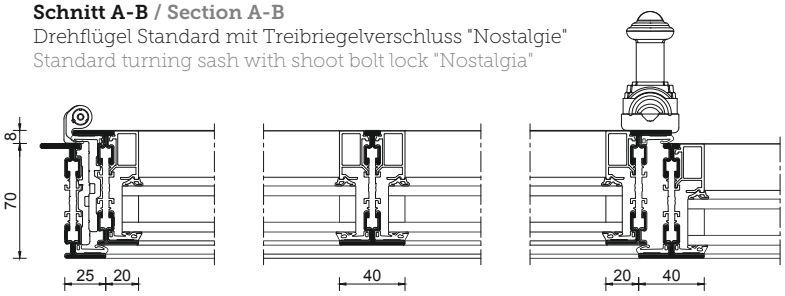




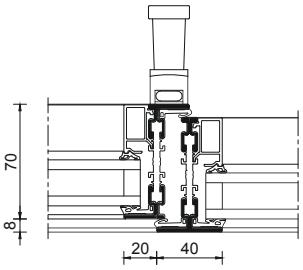
Systemschnitte
Sections

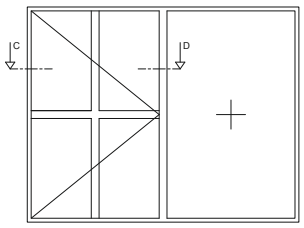


Schnitt A-B / Section A-B
Drehflügel Standard mit Treibriegelverschluss "Nostalgie"
Standard turning sash with shoot bolt lock "Nostalgia"

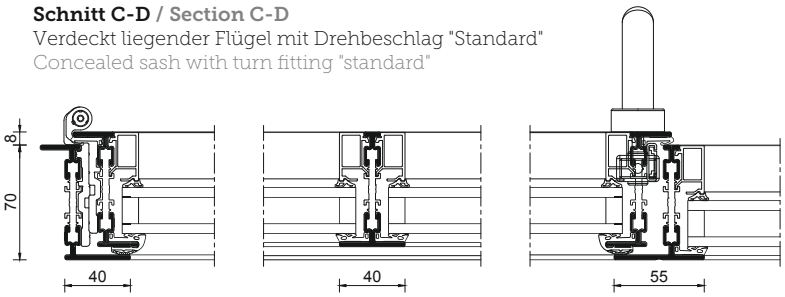


Schnitt B / Section B
Variante mit Treibriegelverschluss "klassisch"
Variant with shoot bolt lock "classic"

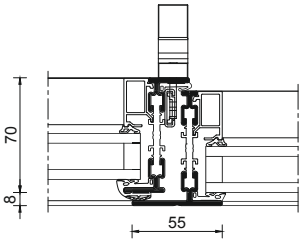


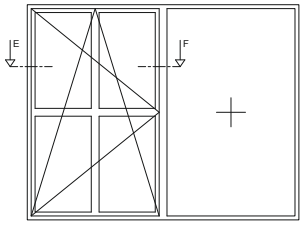


Schnitt C-D / Section C-D
Verdeckt liegender Flügel mit Drehbeschlag "Standard"
Concealed sash with turn fitting "standard"

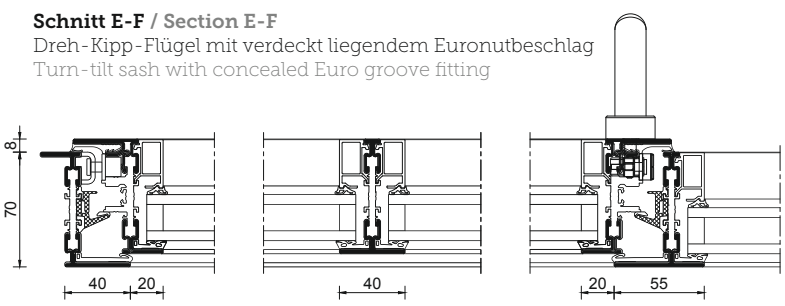


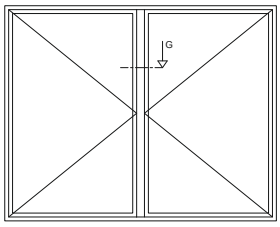
Schnitt D / Section D
Variante mit Hebelgriffbeschlag
Variant with lever handle fitting



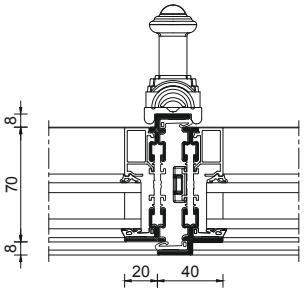


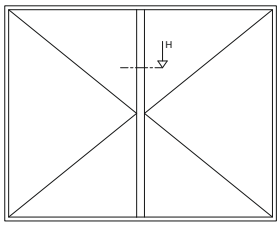
Schnitt E-F / Section E-F
Dreh-Kipp-Flügel mit verdeckt liegendem Euronutbeschlag
Turn-tilt sash with concealed Euro groove fitting



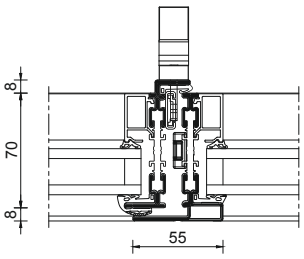


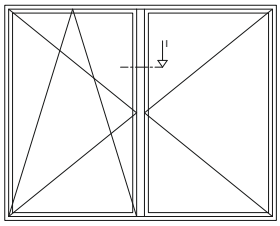
Schnitt G / Section G
2-flügeliges Stulpfenster Standard Dreh / Dreh
Double casement window standard turn / turn



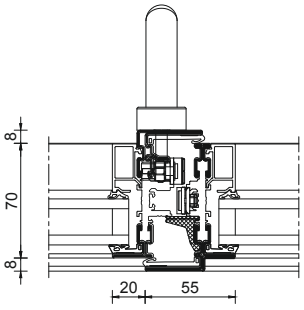


Schnitt H / Section H
2-flügeliges Stulpfenster verdeckt Dreh / Dreh
Double casement window concealed turn / turn

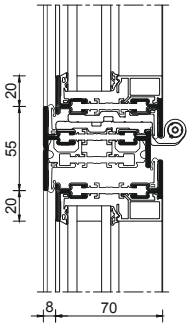


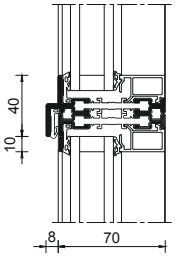


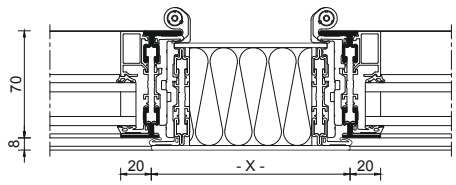
Schnitt I / Section I
2-flügeliges Stulpfenster Dreh-Kipp / Dreh
Double casement window turn-tilt / turn

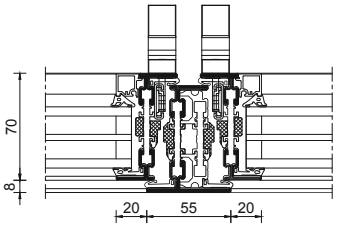


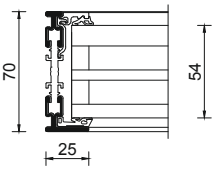
Weitere Beispiele aus der Objekttechnik
Further examples from the project technology







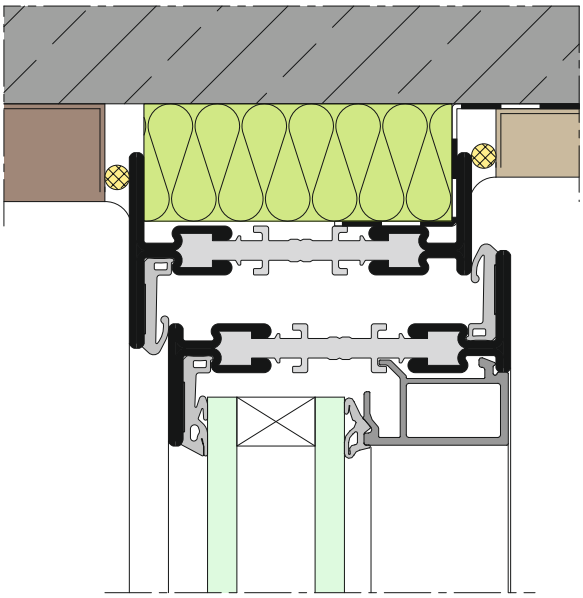


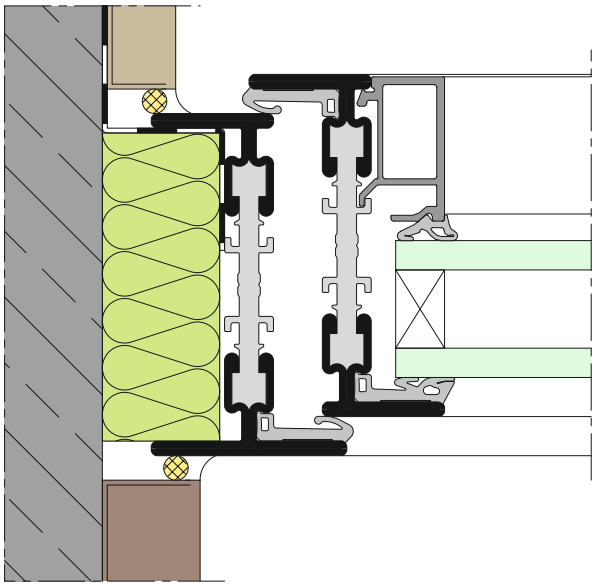


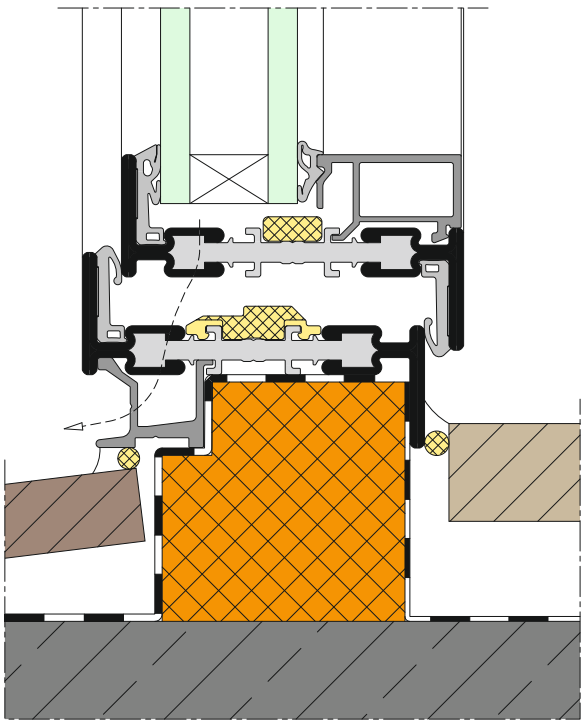


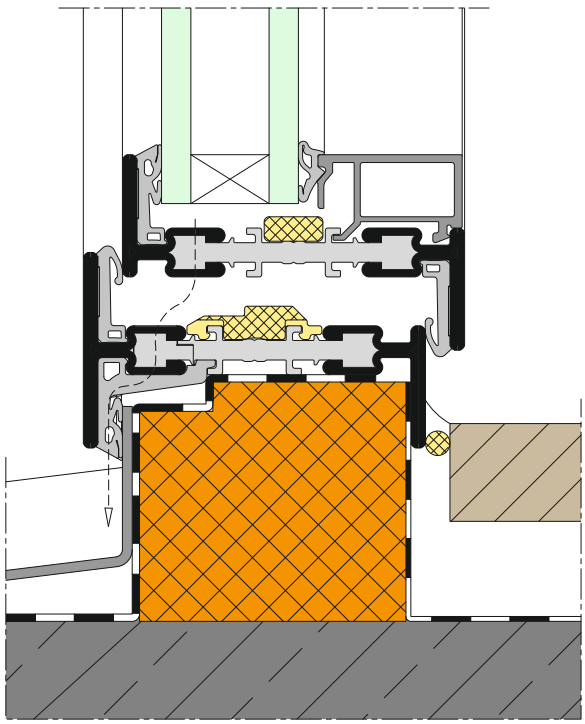

SKYLOTEC

Bauanschlüsse rp fineline 70W
Junctions rp fineline 70W









Die dargestellten Bauanschlüsse stellen Beispiele dar und müssen vom Verarbeiter an die jeweiligen baulichen Bedingungen angepasst werden.
The building junctions pictured are merely examples and must be adapted by the processor to the actual building conditions encountered on site.



© Jonathan Vos Photography

100% verbunden connected

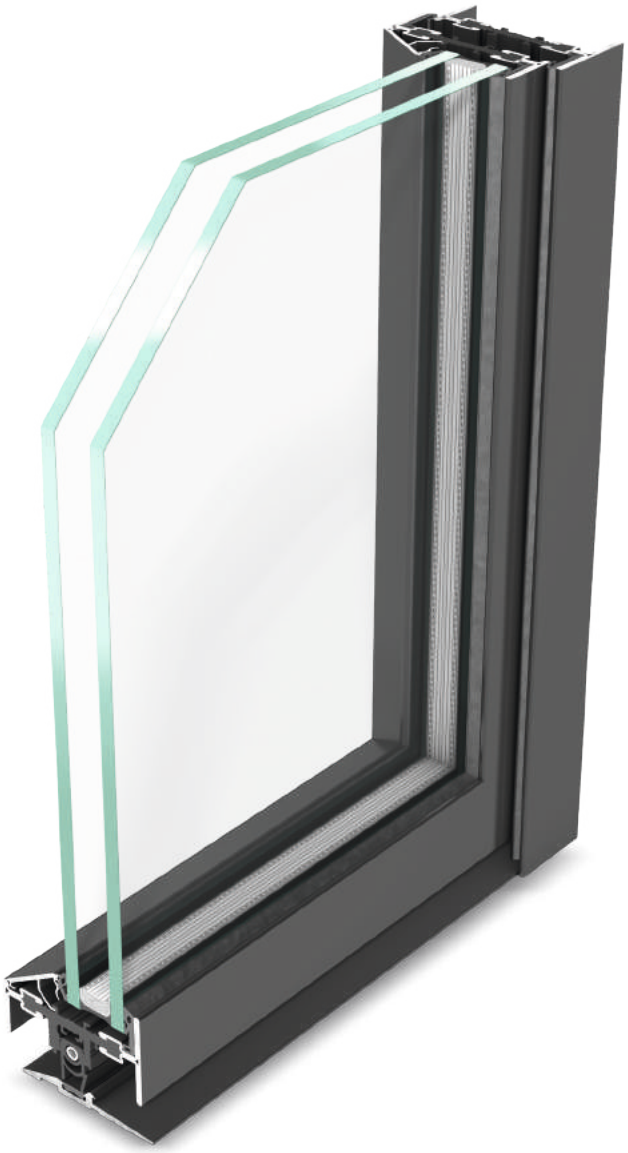




rp fineline 70D

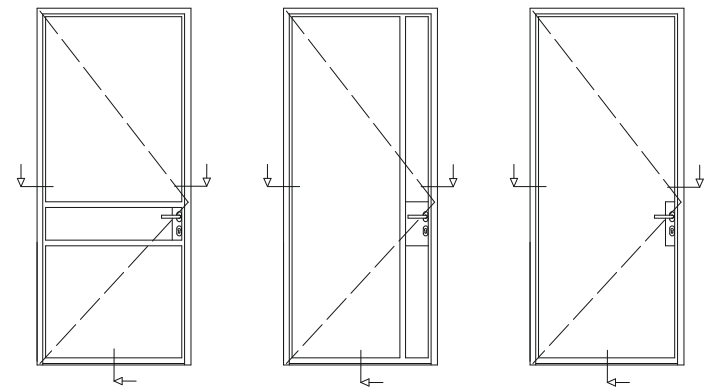
Wärmegedämmte Stahltüren
Thermally insulated steel doors

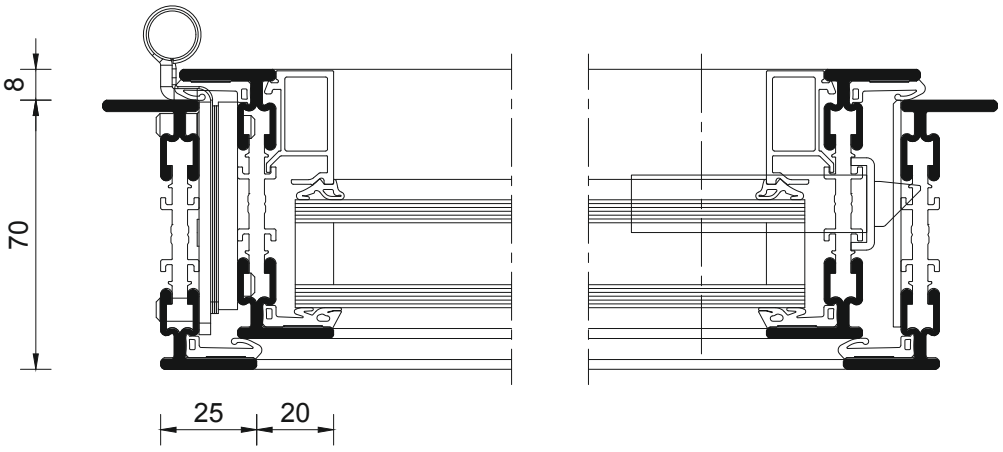
3D-View:
rp-technik.link/153



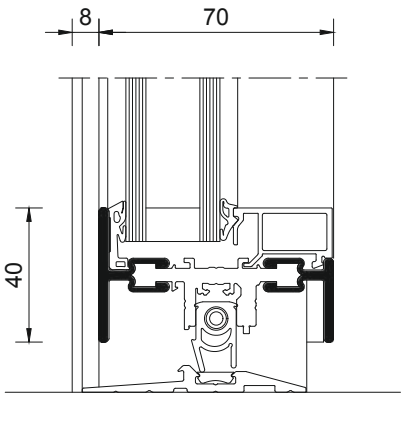
Widerstandsfähigkeit bei Windlast Resistance under wind load	**≤ C3 / B3**
Luftdurchlässigkeit Air permeability	**≤ 4**
Schlagregendichtheit Watertightness	**≤ 5A**
Stoßfestigkeit Impact strength	**1**
Wärmedurchgangskoeffizient Thermal transmittance	**$U_f \geq 1{,}7$ W/m²K**

Systemschnitte
Sections

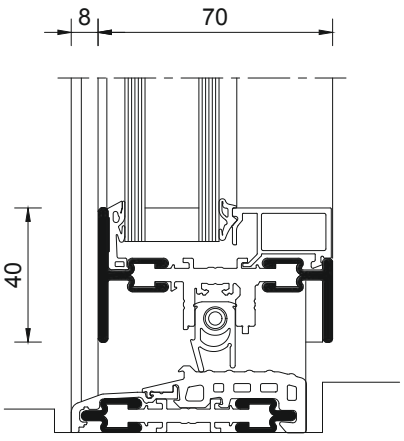




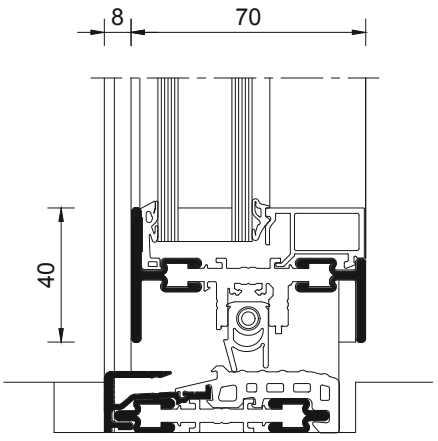
Tür
Door



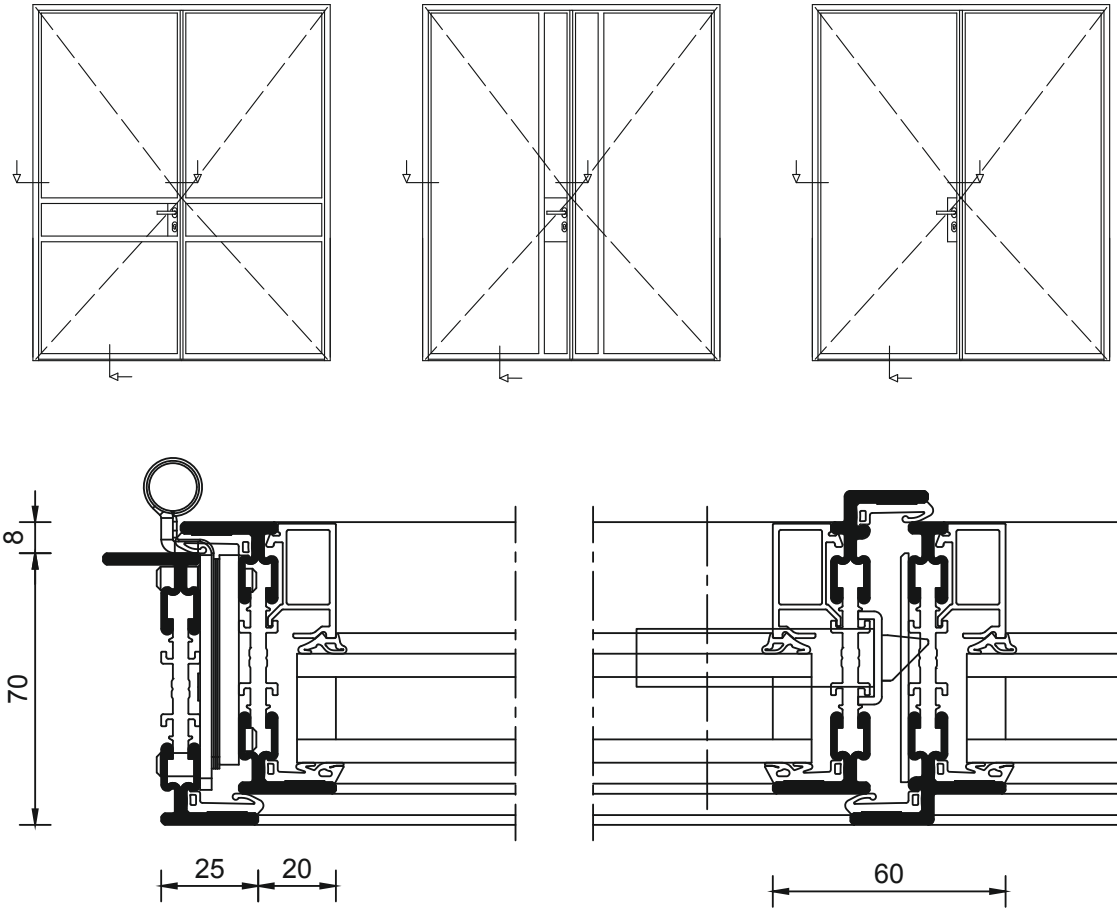
„Altbauschwelle"
„Old building threshold"



Normalschwelle
Normal treshold



Nullschwelle
Zero treshold



Tür 2-flügelig
Two-leaf door

rp fineline 50S

Ungedämmtes, schmales Stahlsystem für Schiebeelemente

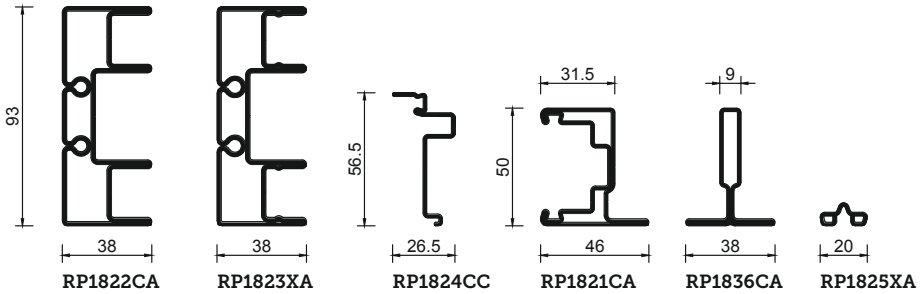
Non-insulated, slim steel system for sliding elements

3D-View:
rp-technik.link/154

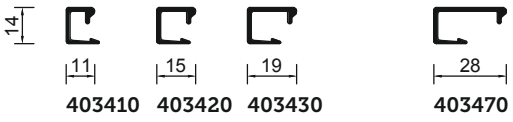


Widerstandsfähigkeit bei Windlast Resistance under wind load	≤ C4
Luftdurchlässigkeit Air permeability	≤ 4
Schlagregendichtheit Watertightness	≤ 7B

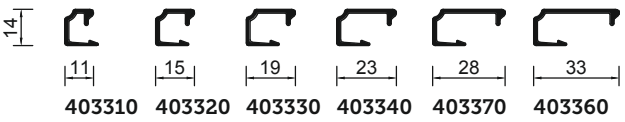
Systemübersicht
System overview



Glasleiste Standard
Standard glazing bead
(flächenbündig/flush surface)

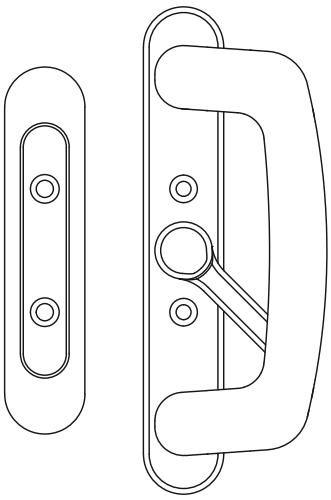


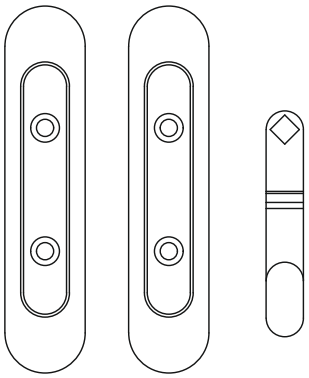
Glasleiste Kontur
Contoured glazing bead





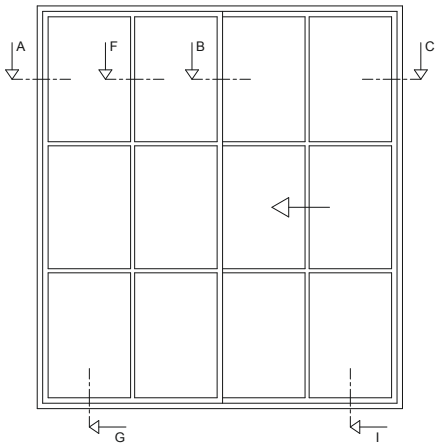
Beschläge
Fittings



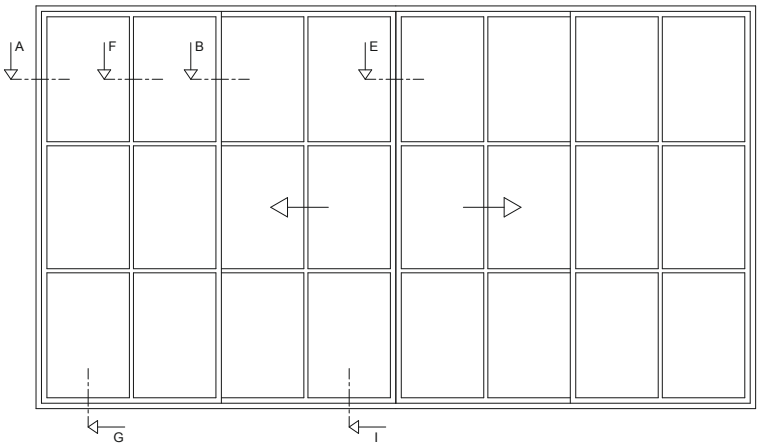


Systemschnitte
Sections

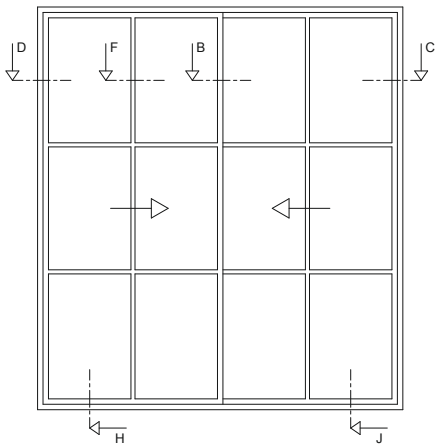
Schema A / Scheme A



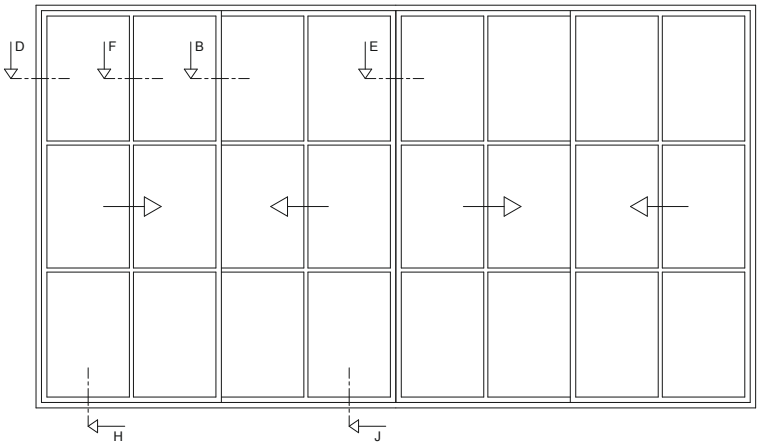
Schema C / Scheme C



Schema D / Scheme D

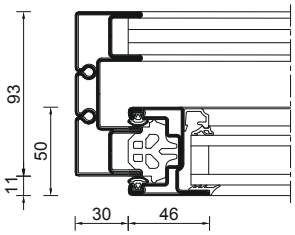


Schema F / Scheme F

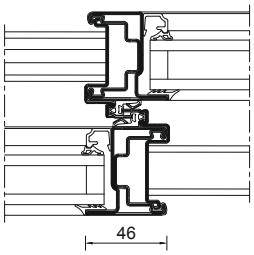




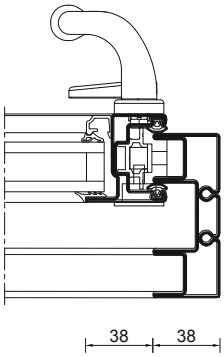
Schnitt A / Section A



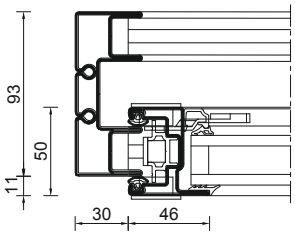
Schnitt B / Section B



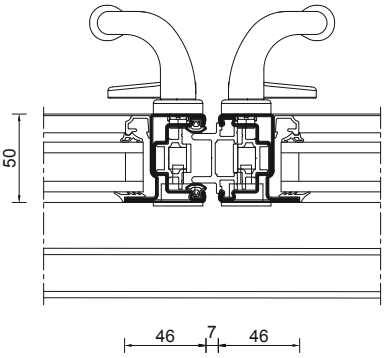
Schnitt C / Section C



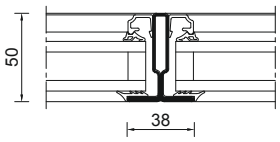
Schnitt D / Section D



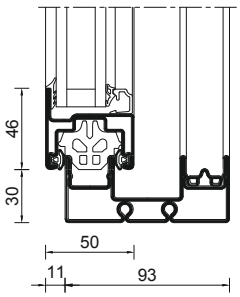
Schnitt E / Section E



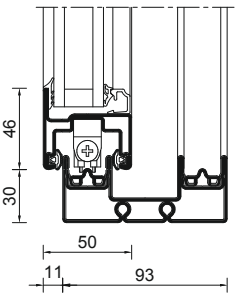
Schnitt F / Section F



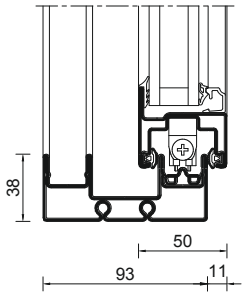
Schnitt G / Section G



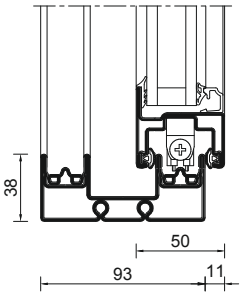
Schnitt H / Section H



Schnitt I / Section I



Schnitt J / Section J







rp fineline
Energiefabrik Knappenrode,
Hoyerswerda

Architekt / **Architect:**
Bauplanung Hille, Bautzen

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Ungedämmtes, filigranes Stahlsystem für Fenster, Türen und Trennwände

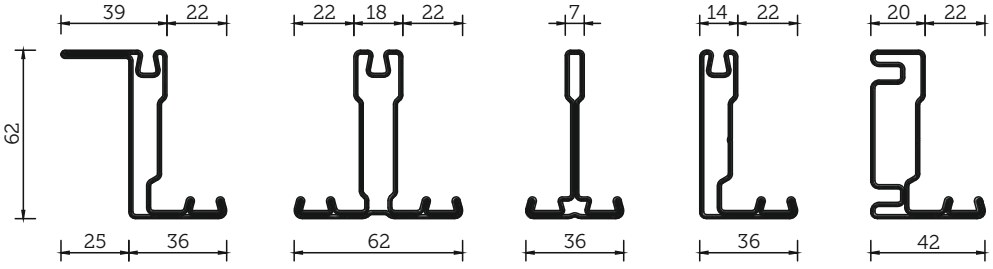
Non-insulated, filigree steel system for windows, doors and partitions

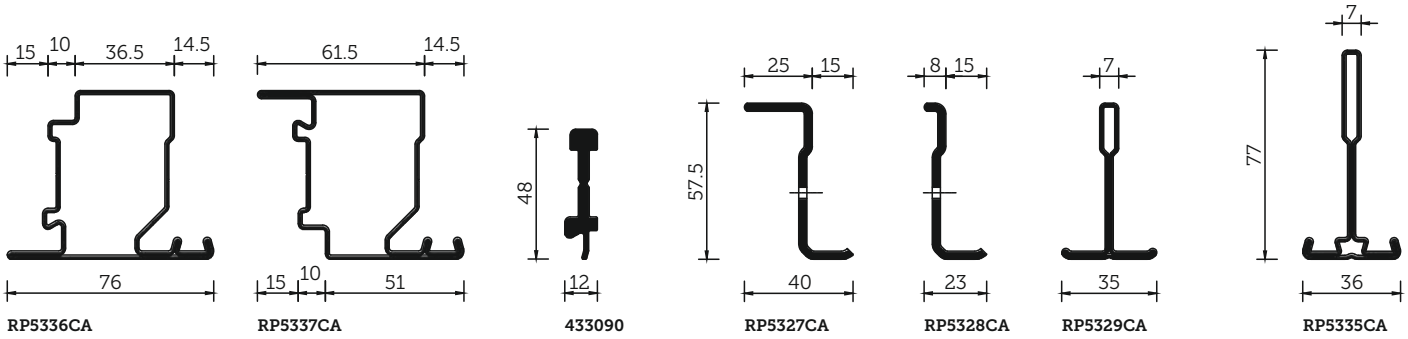
3D-View:
rp-technik.link/155



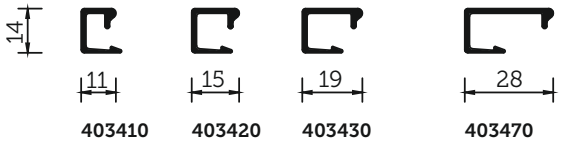
Widerstandsfähigkeit bei Windlast Resistance under wind load	≤ C3
Luftdurchlässigkeit Air permeability	≤ 4
Schlagregendichtheit Watertightness	≤ 7B

Systemübersicht
System overview

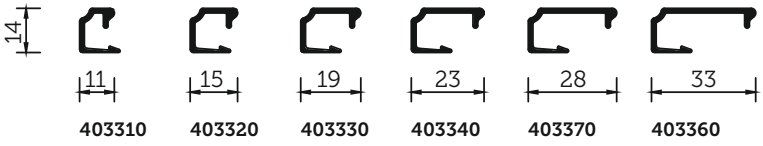




Glasleiste Standard
Standard glazing bead
(flächenbündig/flush surface)



Glasleiste Kontur
Contoured glazing bead

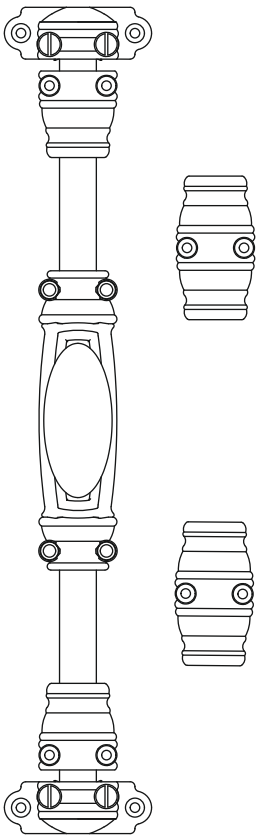


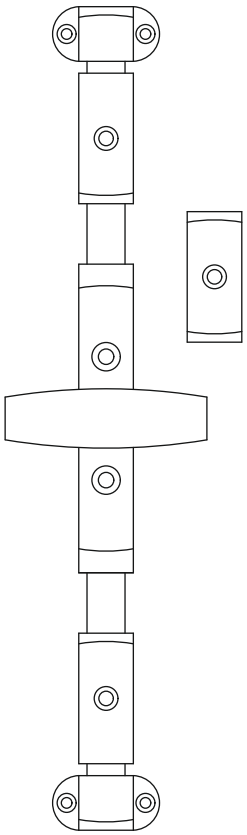


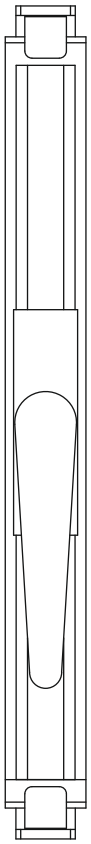
© Fotodesign Andreas Braun, Hameln



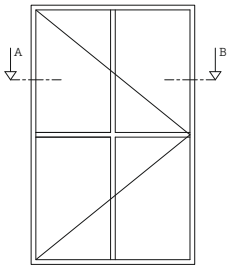
Aufliegende Beschläge
Overlaying fittings



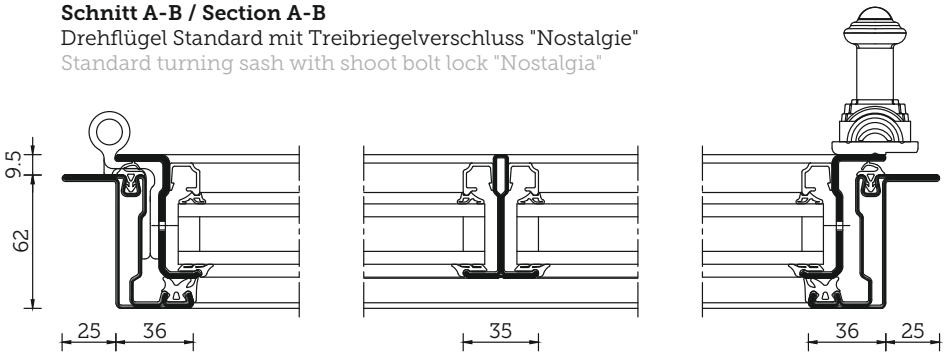




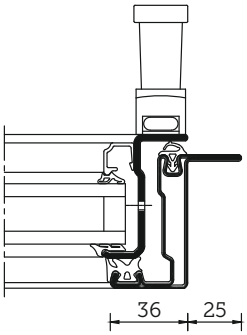
Systemschnitte
Sections



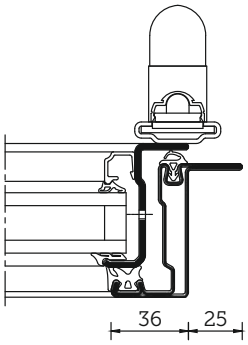
Schnitt A-B / Section A-B
Drehflügel Standard mit Treibriegelverschluss "Nostalgie"
Standard turning sash with shoot bolt lock "Nostalgia"

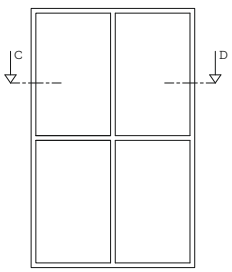


Schnitt B / Section B
Variante mit Treibriegelverschluss "klassisch"
Variant with shoot bolt lock "classic"

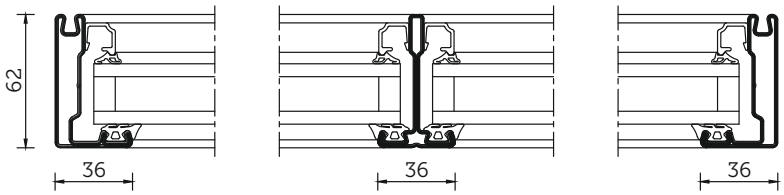


Schnitt B / Section B
Variante mit Treibriegelverschluss "moder
Variant with shoot bolt lock "modern"

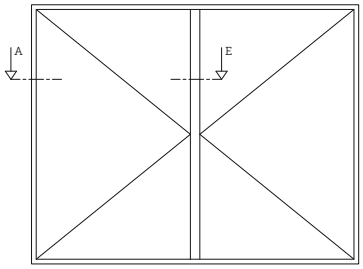




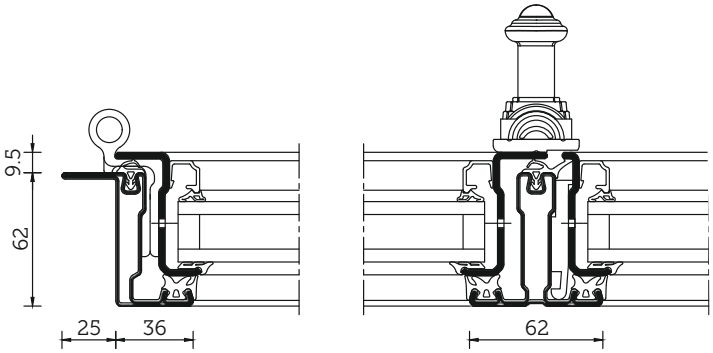
Schnitt C-D / Section C-D
Festverglasung
Fixed glazing

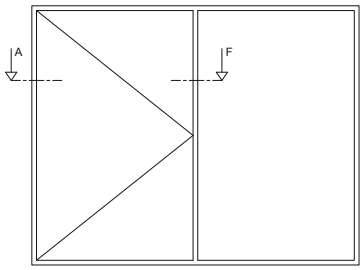


rp fineline 60

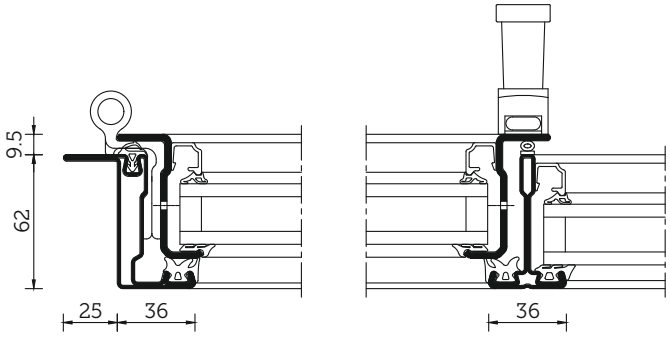


Schnitt A-E / Section A-E
2-flügeliges Stulpfenster Dreh / Dreh
Double casement window turn / turn





Schnitt A-F / Section A-F
Drehflügel mit festem Seitenteil
Turning sash with fixed side panel






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rp technik



RP Technik GmbH Profilsysteme
Edisonstraße 4
59199 Bönen / Deutschland
Tel +49 (0) 2383 9149-0
Fax +49 (0) 2383 9149-222
info@rp-technik.com

www.rp-technik.com

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