SCHÜCO
Stahlsysteme
JANSEN

Janisol Arte 2.0 – Renoveringsvinduer
Janisol Arte 2.0 – Renovation windows

Renovering af bygninger, hvor udskiftningen skal være tro mod den originale stil i stål, rustfrit stål samt cortenstål
Building renovations true to the original style in steel, stainless steel and Corten



Det ideelle system til renoveringsprojekter
The ideal system for renovation projects

Renoveringsprojekter bliver i stigende grad mere vigtige sammenlignet med nybyggeri. Ombygning af industrielle bygninger og bevaringsværdige historiske bygninger har vist sig at være i vækst inden for bygge- og ejendomsindustrien. Mere end halvdelen af renoveringsprojekterne inden for ikke-beboelse inkluderer bygninger fra 30'erne og 40'erne. På den ene side kræver det, at man bibeholder de særlige karakteristika og på den anden side skal man efterleve gældende regler og standarder inden for bygningsreglementet. Stål spiller en central rolle i renoveringsprojekter grundet dens styrke samt materialeegenskaber og designmuligheder.

Compared with newbuilds, renovation projects are becoming increasingly important. The conversion of industrial buildings and conservation of historical buildings in particular prove to be the engines of economic growth in the construction and real estate industries. More than half of all non-residential renovation projects involve buildings from the 1950s and 1960s. A great deal of instinct is required to retain the specific character on the one hand, and to bring the building envelope up to current standards on the other. Steel plays a central role in this owing to its specific strengths in terms of material properties and design options.



Janisol Arte 2.0 stål
Janisol Arte 2.0 steel



Omfattende sortiment af stålmaterialer – som matcher dine behov

Extensive range of steel materials - always matching your requirement

Slankt stålvinduessystem med et bredt sortiment af profiler og beslag – til renoveringsopgaver, som er tro mod den oprindelige stil og tilpasset de moderne boligprojekter.

Janisol Arte 2.0 stålprofilsystem er specialudviklet til vinduesudskiftning ved renoveringsprojekter. Det er udført i overensstemmelse med retningslinjerne inden for bevaringsværdige bygninger og bevarer derved bygningens æstetiske værdi. Grundet det udvidede sortiment af materialer, er der nu også profilvarianter tilgængelige i rustfrit stål og cortenstål. Gennem det brede udvalg af åbningsvarianter for indadgående samt udadgående vinduer, kan det slanke profilsystem både konstrueres som sidehængt, dobbeltramme, kip, PASK og horisontalt eller vertikalt vendevindue. Det har fremragende isolationsevne, stabilitet samt slanke profilbredder, der giver det størst mulige glasareal. Vinduesløsningerne er ideelle til anvendelse i moderne boligbyggerier.

Slimline steel window system with extended range of materials - for renovations which are faithful to the original style and modern residential projects

The Janisol Arte 2.0 steel profile system has been specially developed for the renovation of industrial glazing, loft glazing and windows, in accordance with the guidelines for listed buildings and to allow the value of the property to be retained. Thanks to the extended range of materials, there are now also profile versions available in stainless steel and Corten steel. With the wide variety of opening types for inward and outward-opening windows, the slimline profile system allows old side-hung, double-vent, bottom-hung, top-hung projected top-hung, sliding-, horizontal and vertical pivot windows to be almost perfectly reconstructed - with excellent thermal insulation and stability as well as narrow profile face widths and the largest possible proportion of glass. Attractive window solutions, which are also ideally suited for use in modern residential buildings.

Janisol Arte 2.0 corten
Janisol Arte 2.0 Corten



Janisol Arte 2.0 rustfrit stål
Janisol Arte 2.0 stainless steel

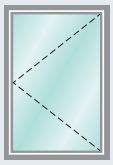
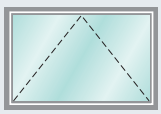
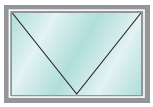
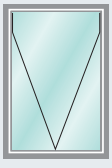
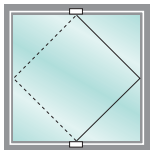
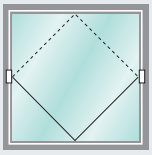




Mange åbningsmuligheder – ét system
Wide variety of openings - 1 System

Slanke profiler til historiske bygninger med et bredt udvalg af åbningsvarianter.
Gennem det brede udvalg af åbningstyper for indadgående og udadgående vinduer, kan det slanke profilsystem konstrueres som sidehængt, dobbeltramme, kip, tophængt, PASK eller som vendevinduer.

Slimline and historical glazing bar system interpreted with large opening dimensions
With the wide variety of opening types for inward and outward-opening windows, the slimline profile system allows old side-hung, double-vent, bottom-hung, top-hung projected top-hung, sliding or horizontal pivot windows to be almost perfectly reconstructed. For simple but attractive window solutions.

	indadgående åbning inward opening	Udadgående åbning outward opening	Rammedimension BxH (pr. fløj) Leaf dimension WxH (per leaf)
 Sidehængt enkelfløjet Single-vent side-hung	■	■	max. 1000 x 2400 mm min. 400 x 400 mm indadgående/inward min. 500 x 400 mm udadgående/outward max. 150 kg
 Sidehængt dobbeltfløjet Double-vent side-hung	■	■	max. 1000 x 2400 mm min. 450 x 590 mm indadgående/inward min. 550 x 700 mm udadgående/outward max. 150 kg
 Kipvindue Bottom-hung window	■		max. 2400 x 840 mm min. 400 x 400 mm max. 60 kg
 Tophængt vindue Top-hung window		■	max. 1650 x 680 mm min. 400 x 500 mm max. 60 kg
 Topstyret vindue Projected top-hung window		■	max. 1190 x 1440 mm min. 330 x 330 mm max. 60 kg
 Horisontalt vendevindue Horizontal pivot window			max. 1400 x 1600 mm max. m²: 1.1881 min. 500 x 400 mm max. 100 kg
 Vertikalt vendevindue Vertical pivot window			max. 1600 x 1600 mm min. 600 x 600 mm max. 120 kg

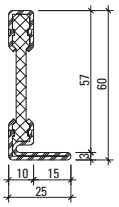
Kreativitet skaber unikke løsninger
Creative freedom creates unique designs

Et bredt udvalg af vinduesvarianter, profiler, glaslister, glastyper samt beslagsdesign og funktioner.

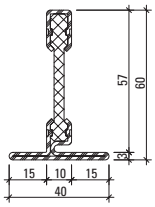
A wide range of window designs, profiles, glazing beads and glass options, together with choice of fittings creates plenty of creative scope.

Profilsortiment Janisol Arte 2.0

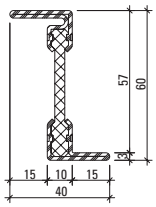
Janisol Arte 2.0 profile range



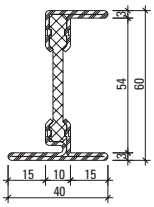
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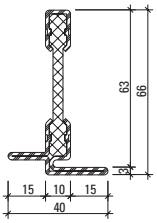
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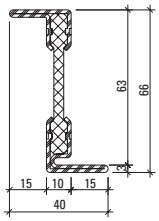
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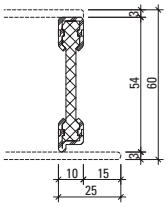
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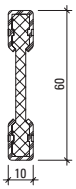
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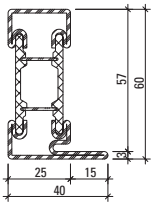
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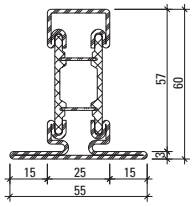
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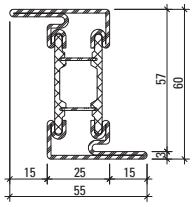
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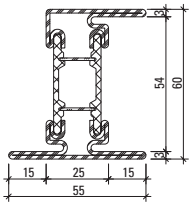
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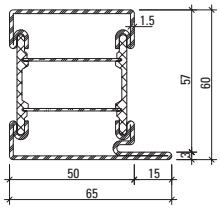
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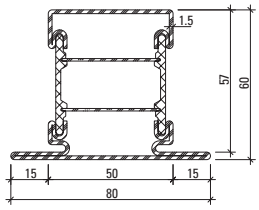
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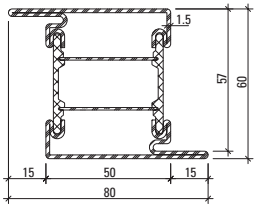
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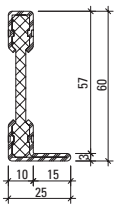
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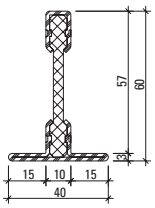
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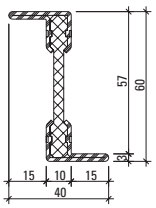
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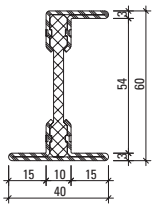
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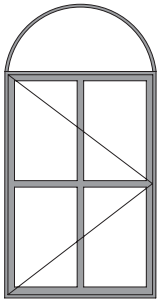
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Artikel-Nr.
u. benævnelse = blank
med Z = transportgalvanisering
med 01 = rustfrit stål, blank, materiale 1.4401 (AISI 316)
med 09 = cortenstål (KB DOCOL 355W)

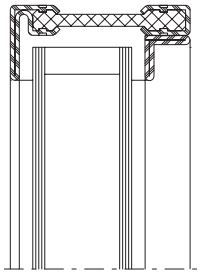
Part no
without addition = bright
with Z = hot-dip galvanised steel
with 01 = Stainless steel, bright, material 1.4401 (AISI 316)
with 09 = Steel KB DOCOL 355W (Corten)

Valsede stålprofiler

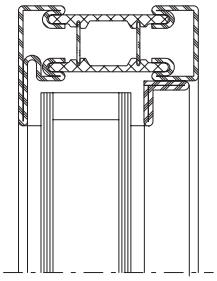
Bending radii steel profiles



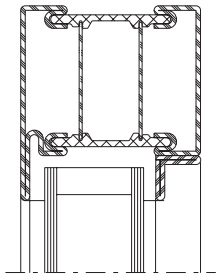
min. 300 mm

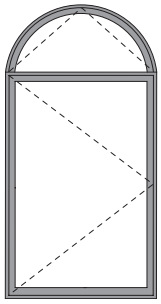


min. 525 mm

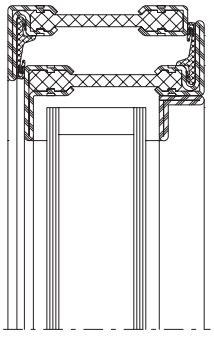


min. 850 mm

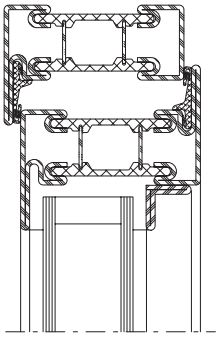




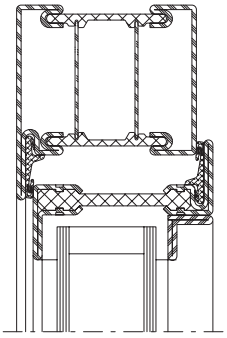
min. 300 mm



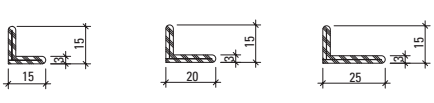
min. 625 mm

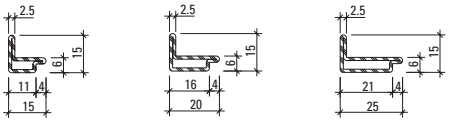


min. 850 mm



min. 300 mm



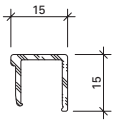


Valsede rustfrie stålprofiler på forespørgsel

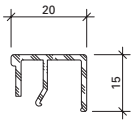
Bending radii stainless steel upon request

Glaslisteoversigt - aluminium

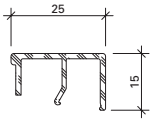
Summary of glazing beads aluminium



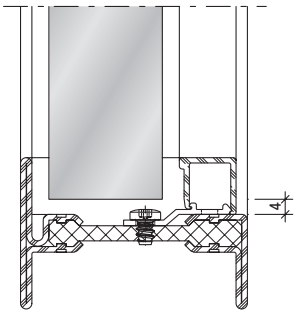
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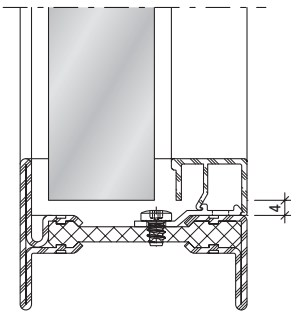


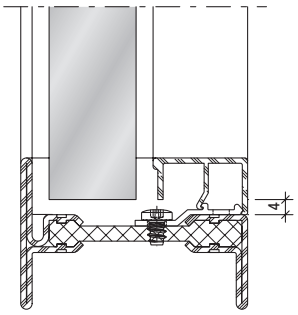
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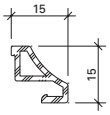


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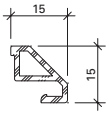




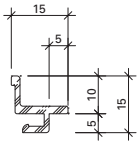




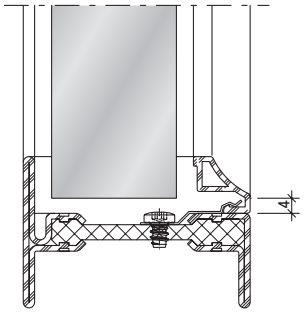
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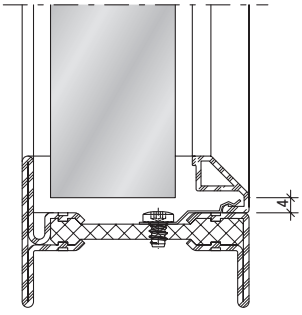


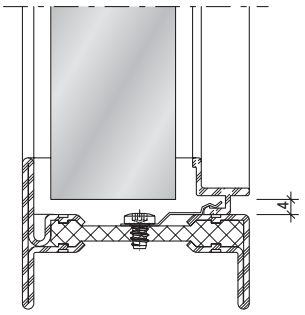
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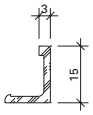


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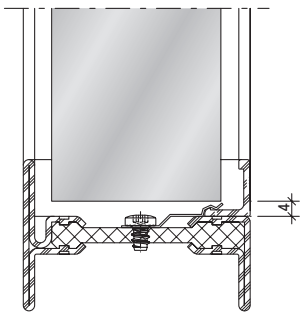






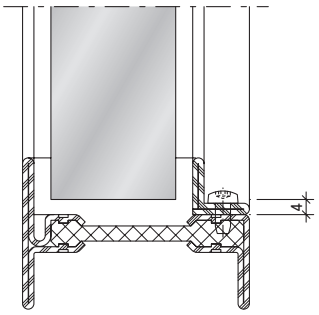


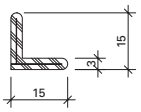
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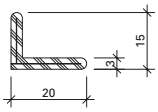
Glaslisteoversigt - stål

Summary of glazing beads steel

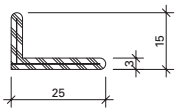




402.190 Z
402.590*
402.990**



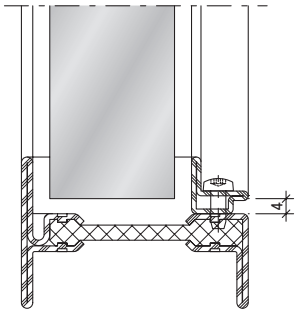
402.191 Z
402.591*
402.991**

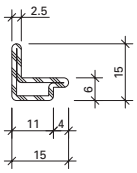


402.192 Z
402.592*
402.992**

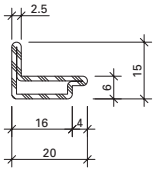
* = Edelstahl 1.4401 (AISI 316)
** = Corten

* = Stainless steel 1.4401 (AISI 316)
** = Corten

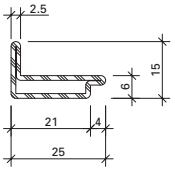




62.510 GV+GC



62.511 GV+GC



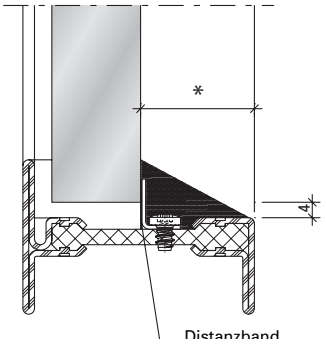
62.512 GV+GC

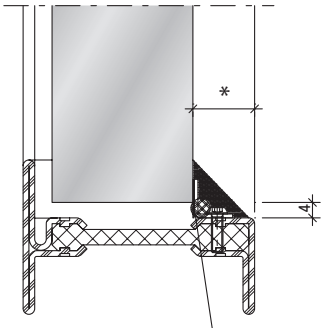
Glasliste mulighed: Kittede rammer

(Vær opmærksom på nationale retningslinjer og forordninger)

Glazing option: Putty glazing

(note national guidelines and regulations)



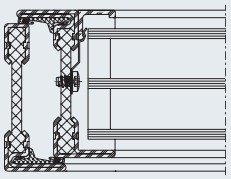
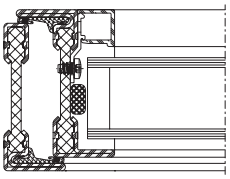
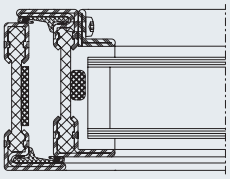


* Minimum/maksimal dimensioner i overensstemmelse med producenten
* Minimum/maximum dimensions in accordance with manufacturer

Design kombineret med isoleringsevne
Design and thermal insulation combined

Slanke profilbredder med de bedste Uf-værdier samt anvendelsen af trelagsglas garanterer maksimal isoleringsevne.
Tre niveauer af profilisolering gør det muligt at tilpasse løsningen til projektet. Der er ingen grænser, når man anvender trelagsglas. Det er muligt at anvende indsatselementer op til 47 mm.

Slimline profiles with the best U_f values and the use of triple glazed units guarantee maximum thermal insulation.
3 stages of profile insulation enable you to adjust to your project requirements. There are no limits when using triple glazed units. Infill unit thicknesses up to 47 mm are possible.

	Rude- og fyldningstykkelser Infill elements			
	≥ 24 mm	≥ 28 mm	≥ 36 mm	≥ 46 mm
	3,1 W/m²K	3,0 W/m²K	3,0 W/m²K	3,0 W/m²K
 Glasfalsisolering Insulating profile Glazing rebate		2,9 W/m²K		2,8 W/m²K
 Glasfalsisolering - og karmisolering Insulating profile Glazing and frame rebate		2,7 W/m²K		2,6 W/m²K

Eksempel på Uf-værdier for Janisol Arte 2.0 i stål
Example U_f values for Janisol Arte 2.0 in steel

Uf-værdierne er beregnet med baggrund i:
- Valget af profilkombination
- Anvendelse af isolatorer i glasfals og rammefals:mindre konvektion giver en bedre Uf-værdi.
- Fyldningselement tykkelse: jo større isoleringsafstand, des bedre Uf-værdi
- Valg af profilmaterialer: De bedste Uf-værdier opnås med rustfrit stål efterfulgt af sort stål og cortenstål.

The U_f values are essentially determined by:
- The choice of profile combination
- The use of insulation profiles in the glazing rebate and profile rebate: less convection means a better U_f value
- Infill unit thickness: the greater the insulation distance, the better the U_f value
- Choice of materials for the profile: Best U_f values with stainless steel, followed by steel and corten steel

Varmetransmitans
Thermal transmittance

Beregninger for vinduer og faste felter er baseret på standarddimensioner i overensstemmelse med produktstandarden EN 14351-1. Disse dimensioner er 1230 X 1480 mm for vinduer og faste felter. Det følgende overblik indikerer flere Uw-værdier, som kan opnås ved at anvende forskellige typer af:

- Glastyper ($U_g$værdier)
- Rudespacertypen (ψ Psi-værdier)

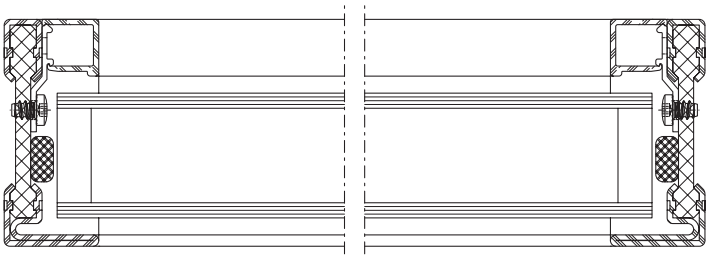
U_w-værdier for vinduer og faste felter::
≥ 1,4 W/m²K (Glas-U_g = 1,1, ψ = 0,08)
≥ 1,3 W/m²K (Glas-U_g = 1,1, ψ = 0,035)
≥ 1,3 W/m²K (Glas-U_g = 1,0, ψ = 0,08)
≥ 1,2 W/m²K (Glas-U_g = 1,0, ψ = 0,035)
≥ 1,1 W/m²K (Glas-U_g = 0,7, ψ = 0,08)
≥ 0,9 W/m²K (Glas-U_g = 0,7, ψ = 0,035)
≥ 0,9 W/m²K (Glas-U_g = 0,5, ψ = 0,08)
≥ 0,8 W/m²K (Glas-U_g = 0,5, ψ = 0,035)

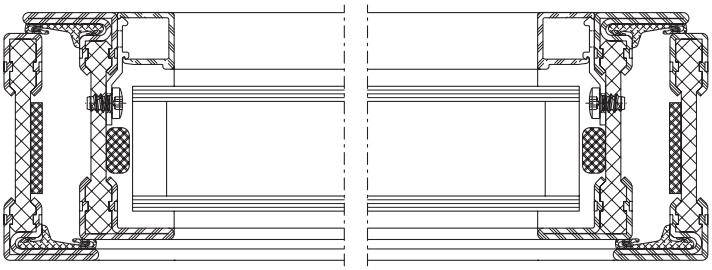
The window and fixed glazing calculations are based on standard dimensions in accordance with product standard EN 14351-1.
These dimensions are 1,230 x 1,480 mm for windows and fixed glazing.
The following overview indicates several U_w-values which can be reached by using several types of:

- glazing (U_g-values)
- gazing spacer (ψ. Psi-values)

U_w-values for windows and fixed glazings:
≥ 1.4 W/m²K (U_g for glass = 1.1, ψ = 0.08)
≥ 1.3 W/m²K (U_g for glass = 1.1, ψ = 0.035)
≥ 1.3 W/m²K (U_g for glass = 1.0, ψ = 0.08)
≥ 1.2 W/m²K (U_g for glass = 1.0, ψ = 0.035)
≥ 1.1 W/m²K (U_g for glass = 0.7, ψ = 0.08)
≥ 0.9 W/m²K (U_g for glass = 0.7, ψ = 0.035)
≥ 0.9 W/m²K (U_g for glass = 0.5, ψ = 0.08)
≥ 0.8 W/m²K (U_g for glass = 0.5, ψ = 0.035)







Janisol Arte 2.0

Gennemtestet sikkerhed i overensstemmelse med produktstandarden

Certified performance in accordance with product standard

Omfattende test i overensstemmelse med produktstandarden (EN 14351-1) og andre standarder og forordninger giver maksimal sikkerhed samt holdbarhed til dit byggeprojekt

Extensive tests in accordance with the product standard (EN 14351-1) and other standards and regulations provide maximum safety and reliability for your building project.

Mekanisk styrke og stabilitet
Mechanical strenghts and stability



Slagregnstæthed EN 12208
op til Klasse 9A
Watertightness EN 12208
up to class 9A



Luftgennemtrængelighed EN 12207
op til Klasse 4
Air permeability EN 12207
up to class 4



Vindmodstand EN 12210 op til Klasse C4
Resistance to wind load EN 12210
up to class C4



Mekanisk styrke EN 1192
op til Klasse 4
Classification of strength requirements EN 1192 up to class 4



Modstandsevne over for stød EN 13049 op til Klasse 4
Impact Resistance EN 13049
up to class 4



Type 1-miljømærkning EN 14024 - CW / TC2
Metal profiles with thermal barrier EN 14024 - CW / TC2



Mekanisk holdbarhed EN 12400
op til Klasse 4
Durability EN 12400
up to class 4

Sikkerhed og niveaufri adgang ved anvendelse
Safety and accessability in use



Godkendt bæreevne for sikkerhedsanordninger
Load-bearing capacity of safety devices - Requirements satisfied



Betjeningskraft af døren EN 12217 Klasse 1
Operating forces EN 12217 class 1



Sikkerhedsglas
Barrier glazing

Lydreduktion
Protection against noise



Lydreduktion
$R_w \leq 45$ dB (-1; -5)
Protection against noise
$R_w \leq 45$ dB (-1; -5)

Hygiejne / Sundhed / Miljø
Hygiene / Health / Environment



Farlige substanser
Krav er opfyldt
Dangerous substances
Requirement fulfilled

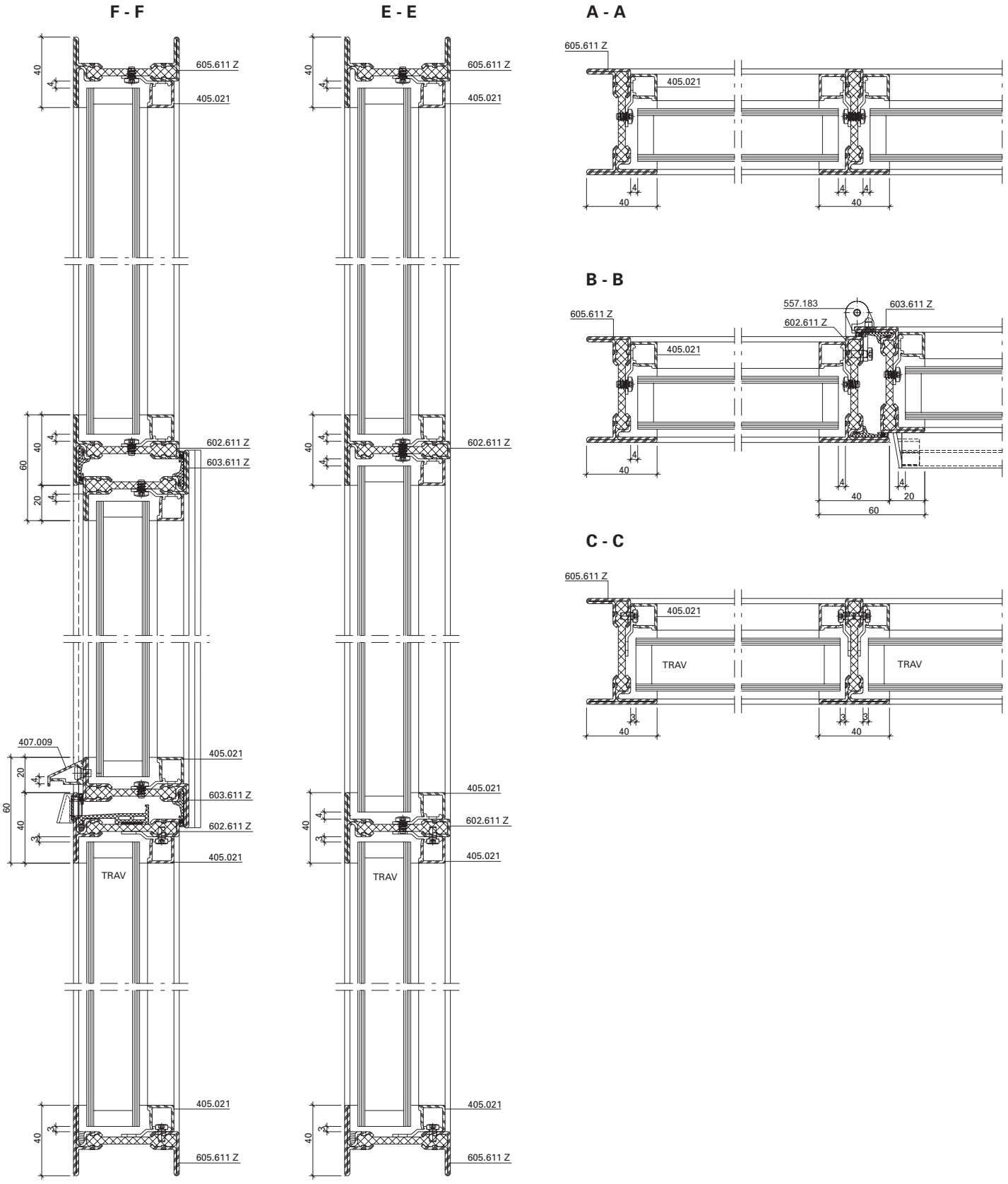
Energibalance
Energy economy and heat retention

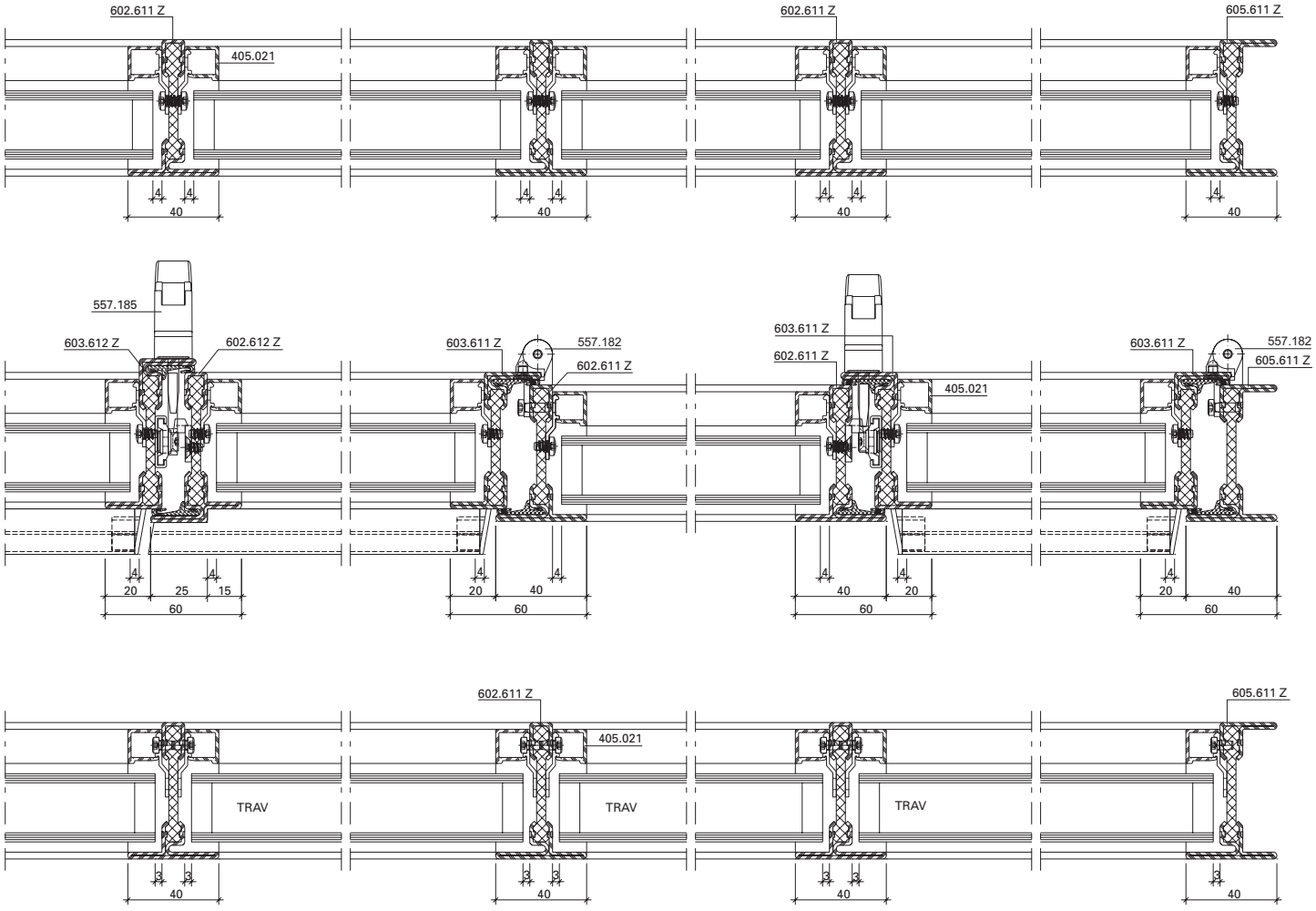


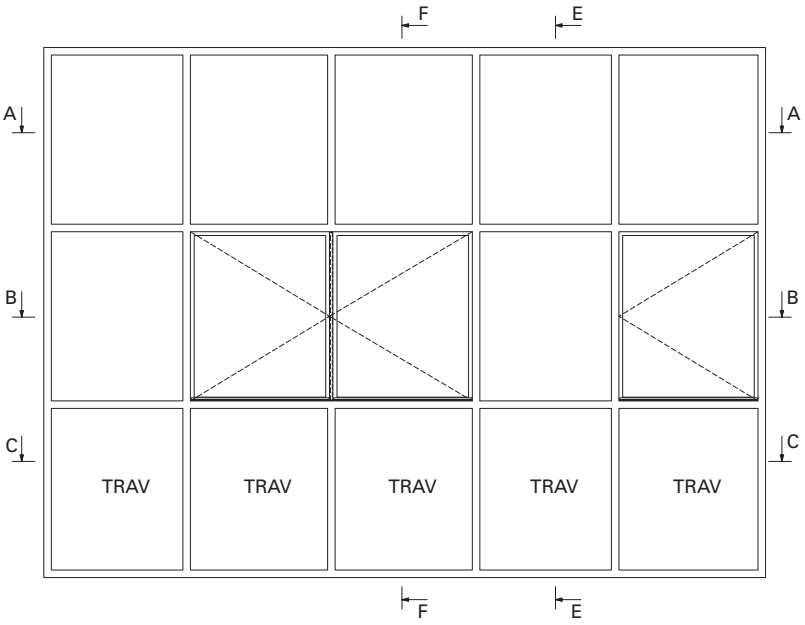
Varmetransmissionskoefficient
$U_f \geq 1{,}6$ W/m² K
Thermal transmittance
$U_f \geq 1{,}6$ W/m² K



Eksempler på indadgående åbningsvarianter
Examples of inward opening applications



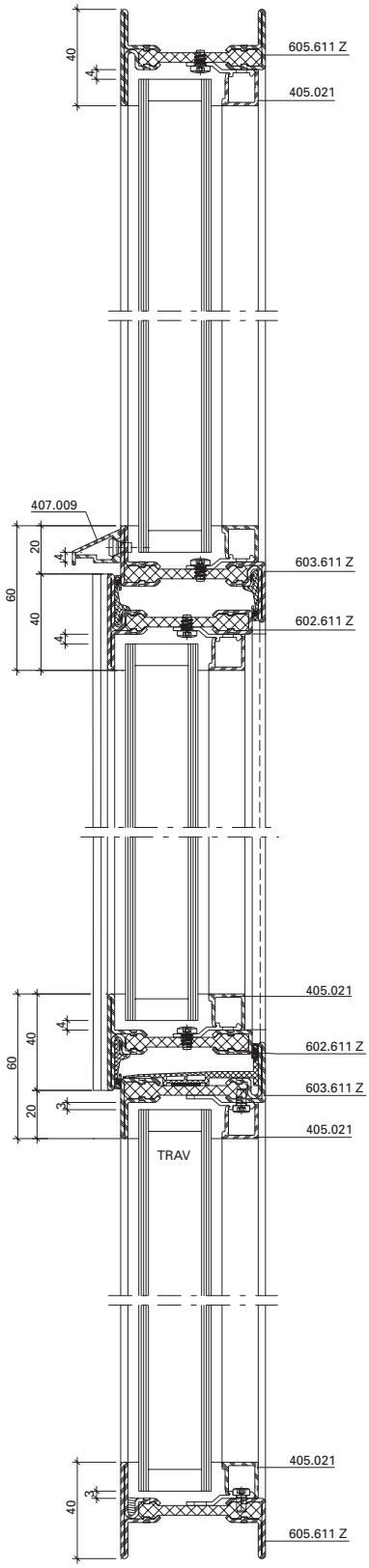

602.611 Z
405.021
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557.185
603.612 Z
602.612 Z
603.611 Z
557.182
602.611 Z
603.611 Z
602.611 Z
405.021
603.611 Z
557.182
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602.611 Z
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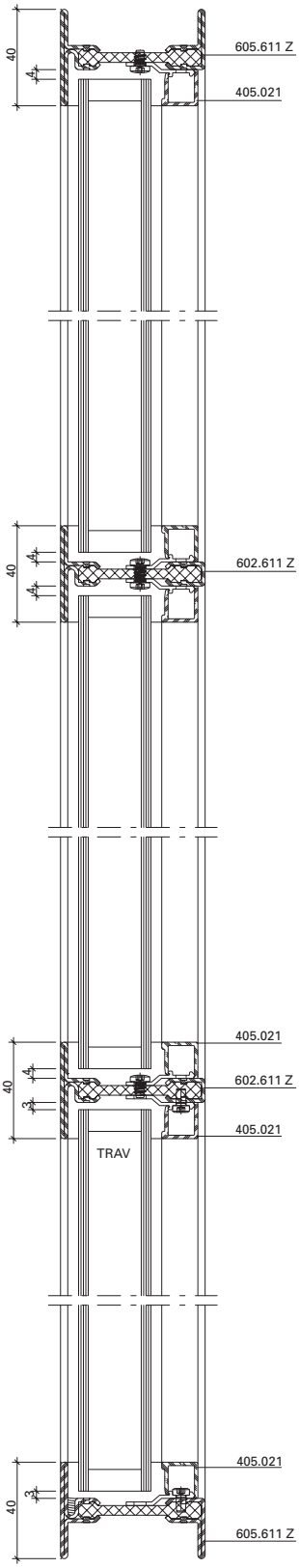
DXF **DWG**

Eksempler på udadgående åbningsvarianter
Examples of outward opening applications

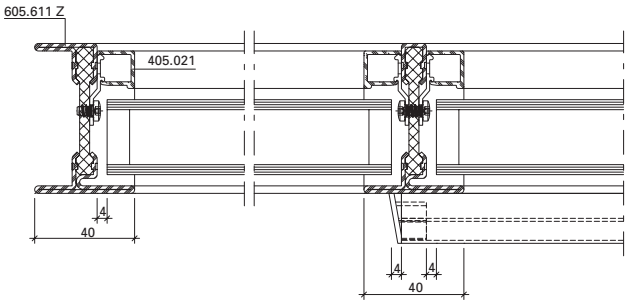
F - F



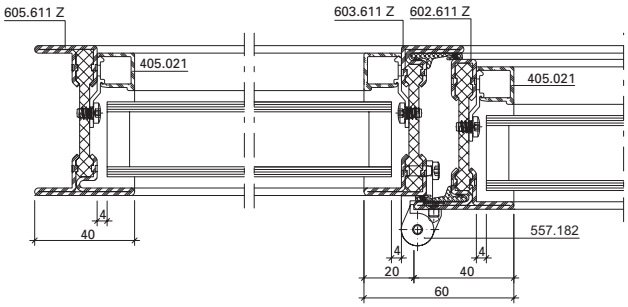
E - E



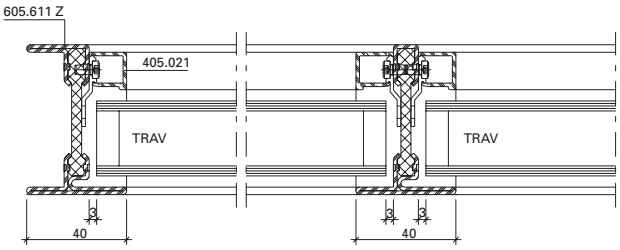
A - A

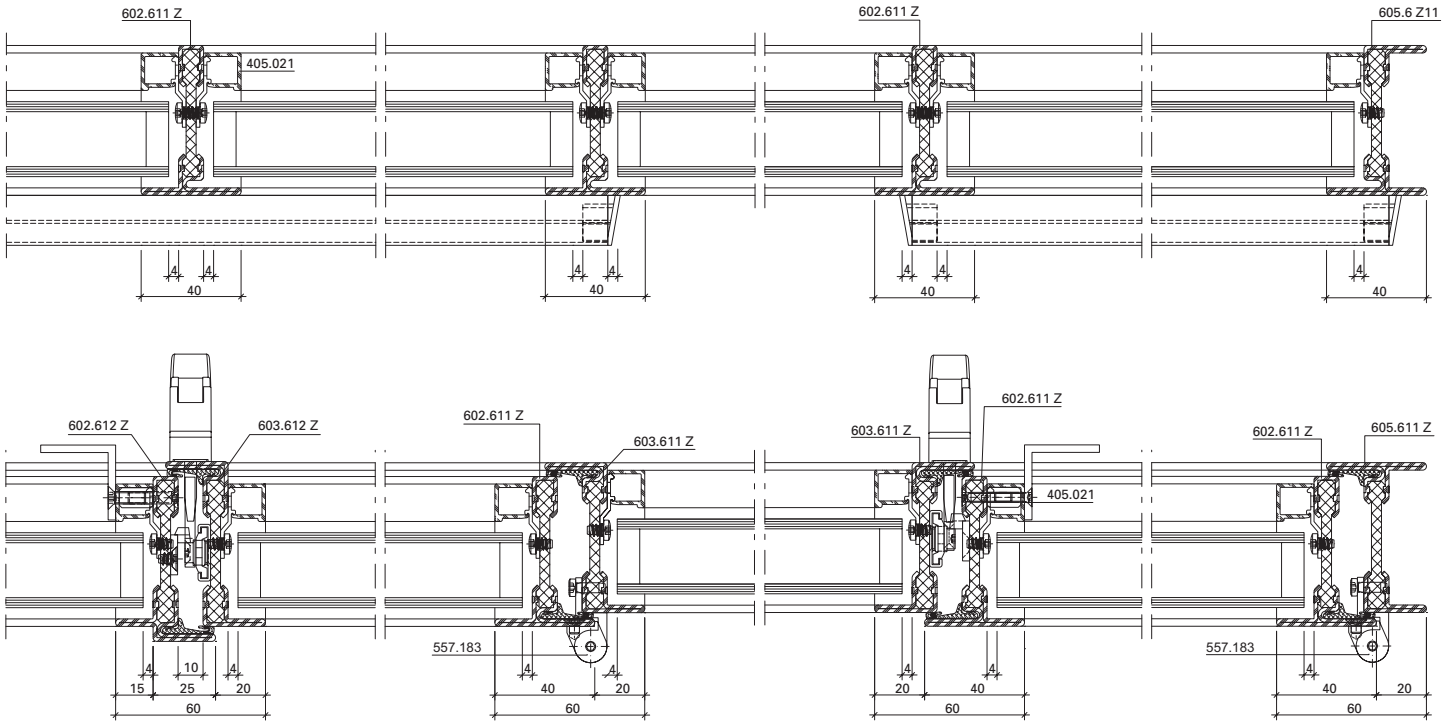


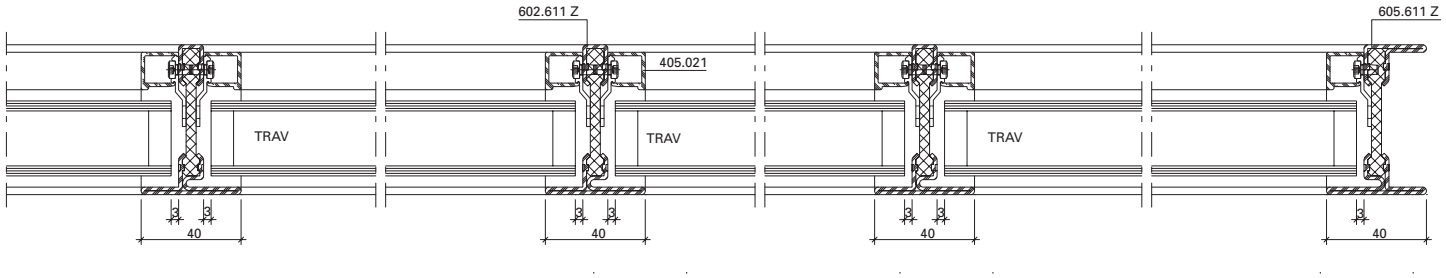
B - B

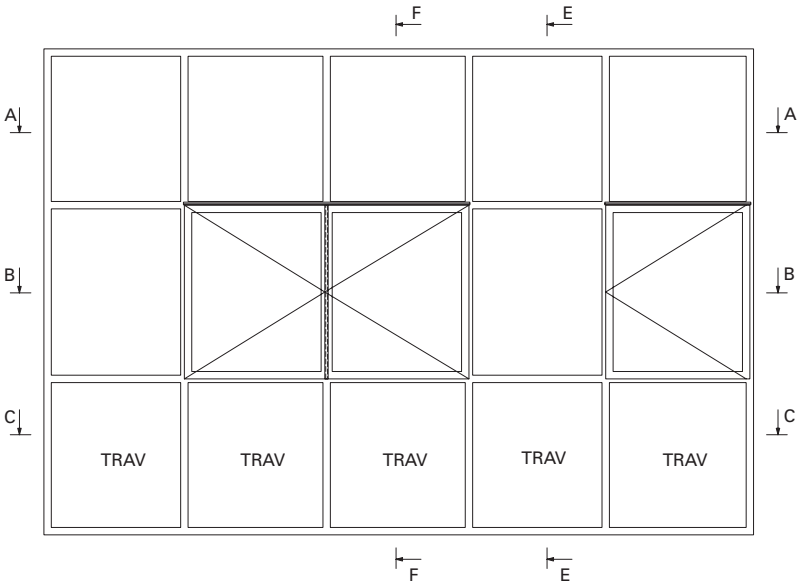


C - C



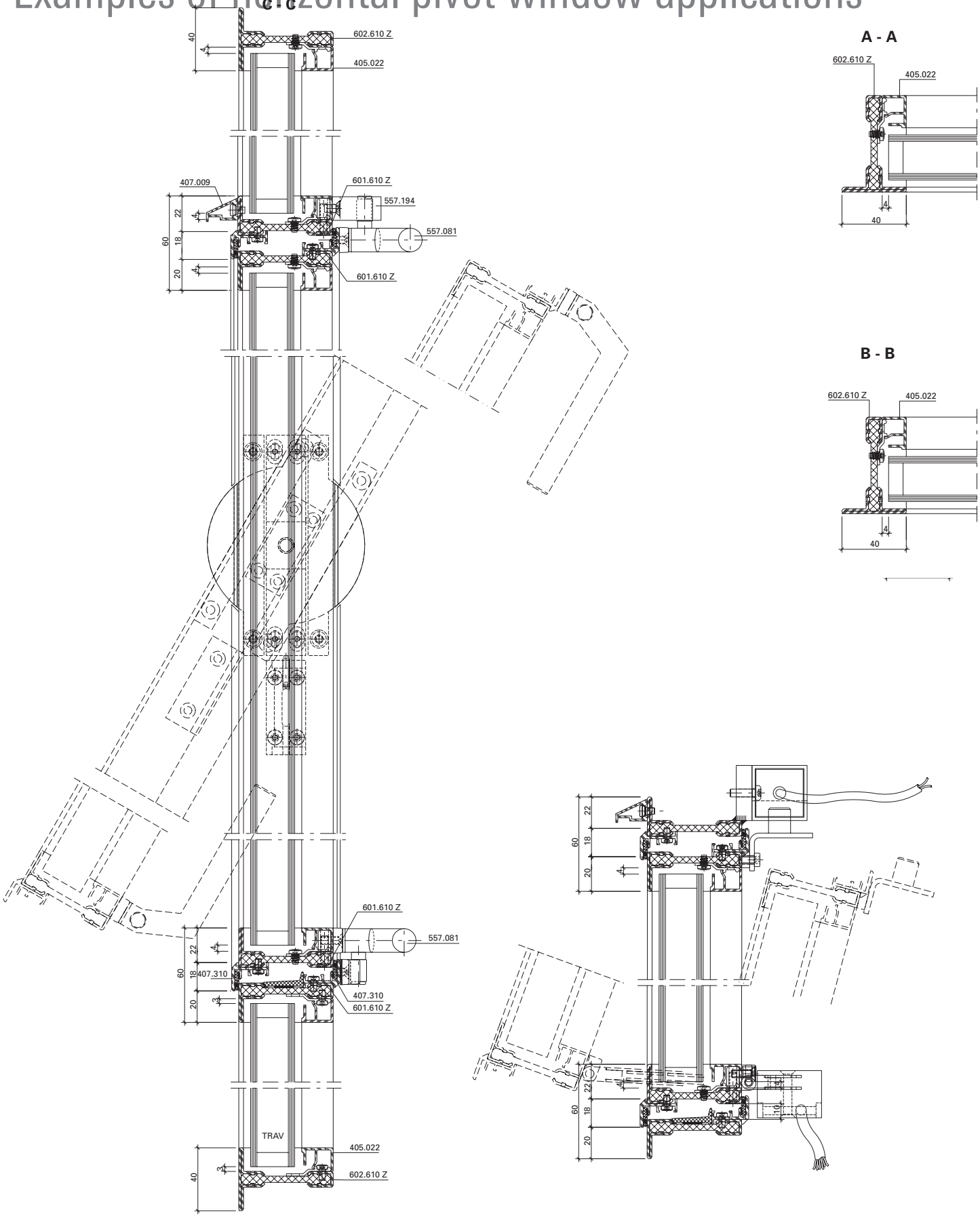

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602.611 Z
605.6 Z11
602.612 Z
603.612 Z
602.611 Z
603.611 Z
603.611 Z
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405.021
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605.611 Z
557.183
557.183
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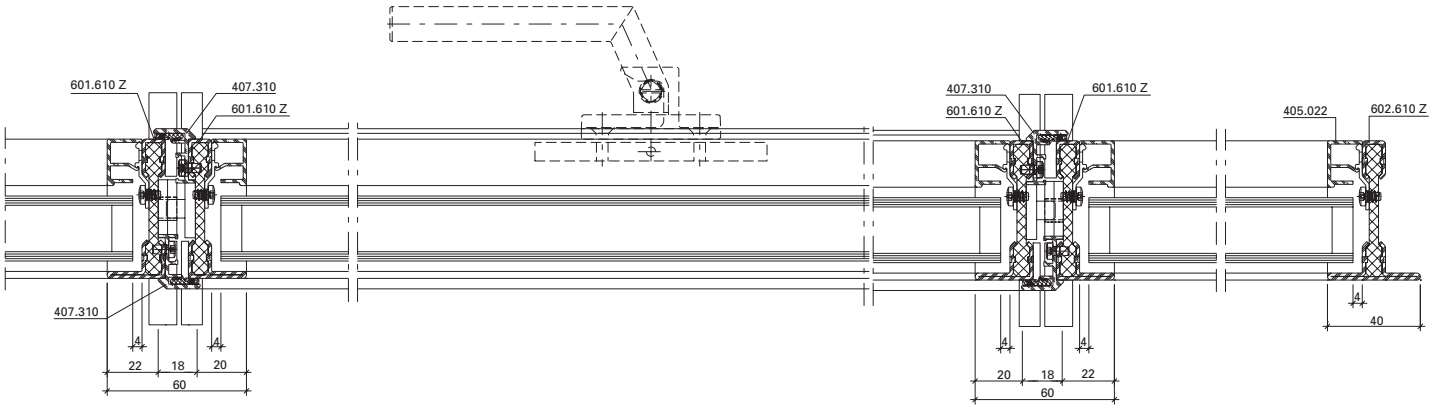

602.611 Z
405.021
605.611 Z
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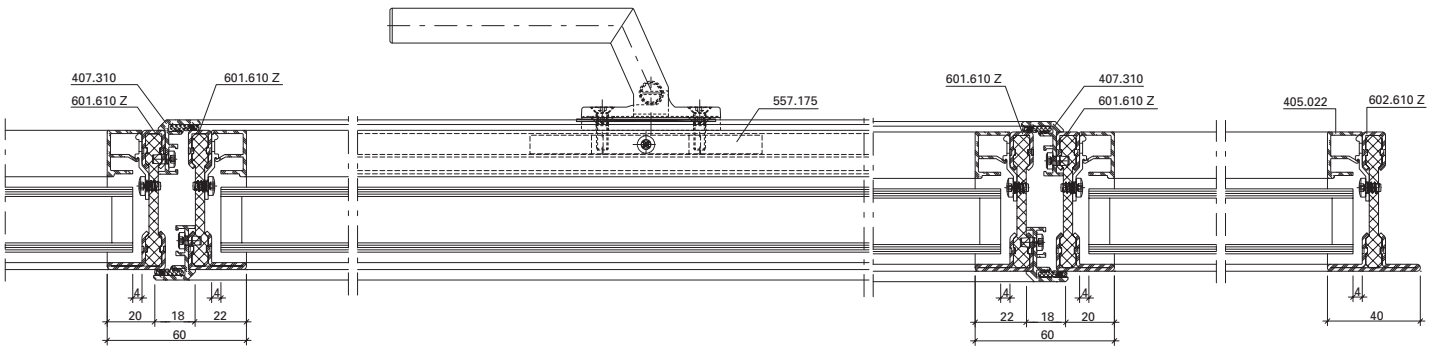

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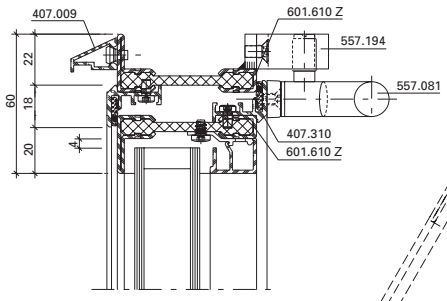
DXF **DWG**

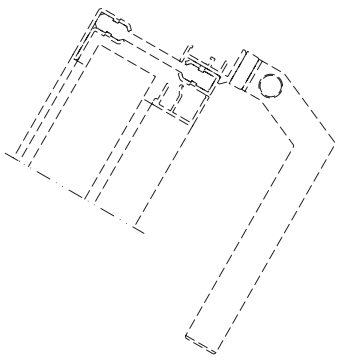
Eksempler på horisontale vendevinduer
Examples of horizontal pivot window applications

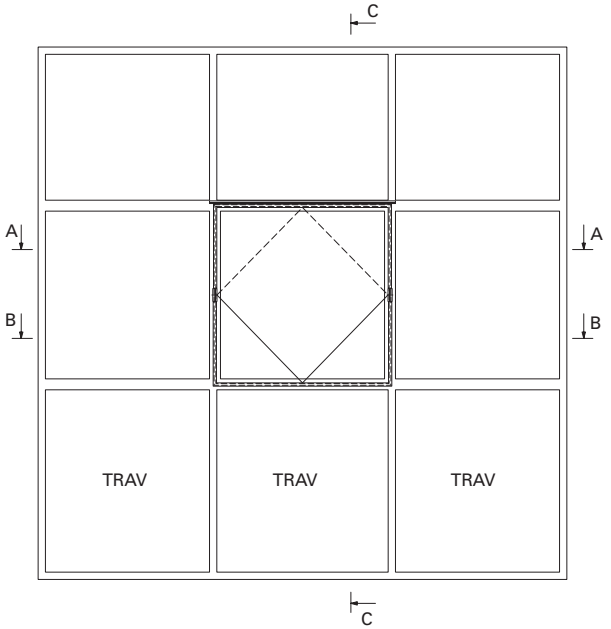



601.610 Z
407.310
601.610 Z
407.310
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407.310
601.610 Z
601.610 Z
405.022
602.610 Z
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60


407.310
601.610 Z
601.610 Z
557.175
601.610 Z
407.310
601.610 Z
405.022
602.610 Z
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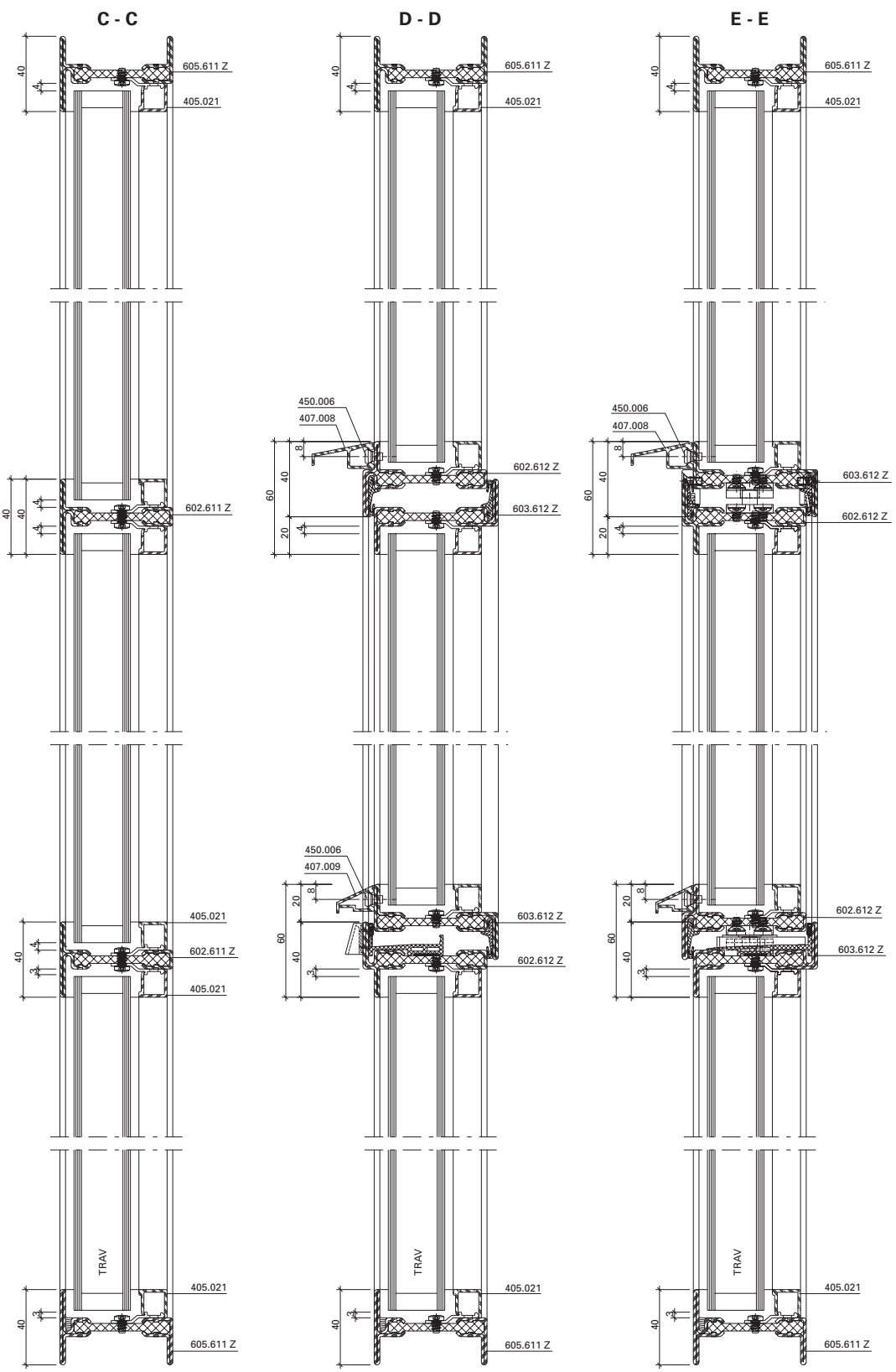

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601.610 Z
557.194
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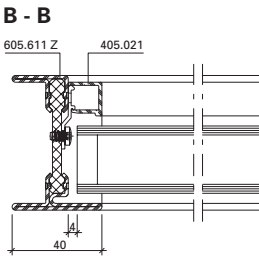


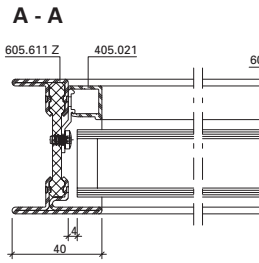

C
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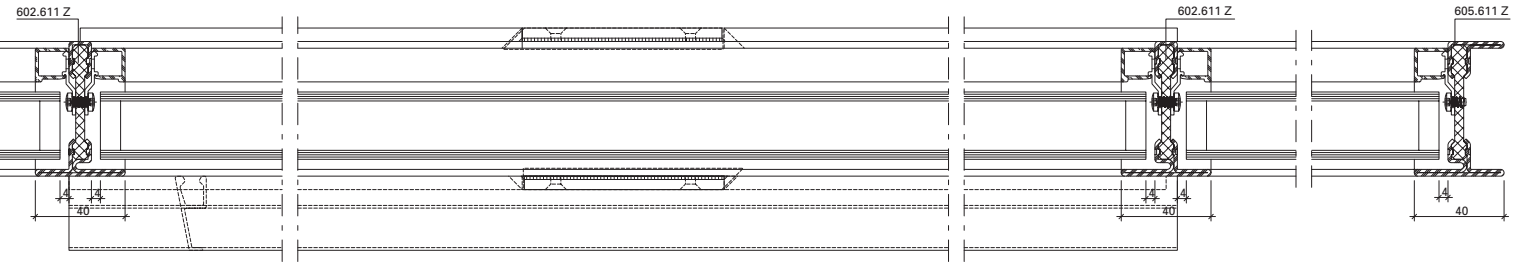
DXF DWG

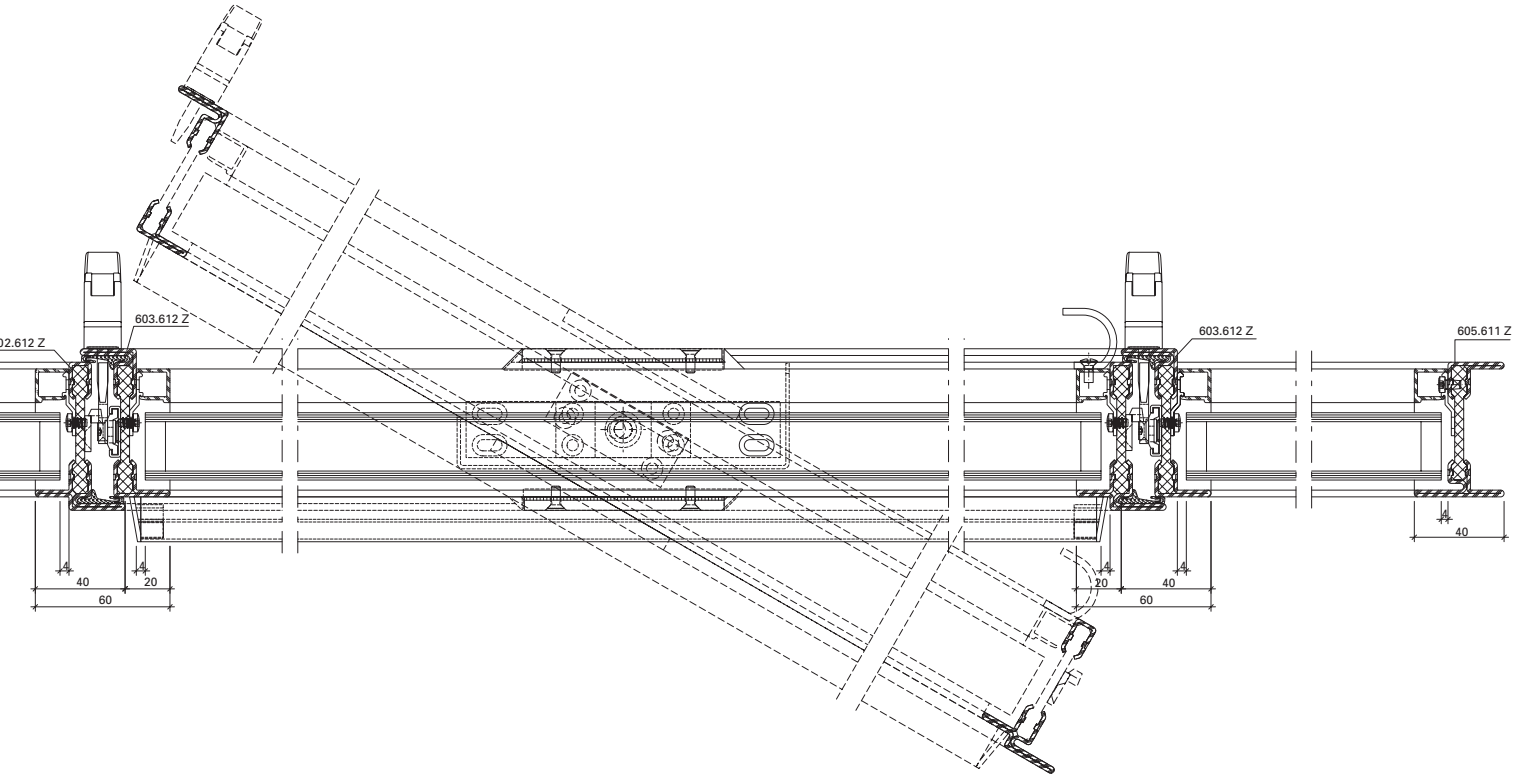
Eksempler på vertikale vendevinduer
Examples of vertical pivot window applications

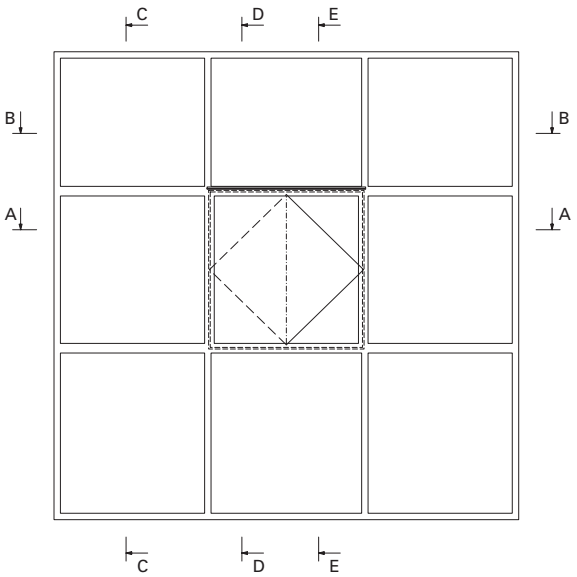







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DXF DWG

Schüco Jansen stålsystemer
Schüco Jansen Steel Systems



Schüco tilbyder i samarbejde med Jansen AG teknologiløsninger til facader, døre, og vinduer samt sikkerhed til højkvalitetsstål og profilsystemer både i Tyskland og i andre udvalgte lande. På denne måde, åbner Schüco op for nye dimensioner inden for systemekspertise: arkitektonisk frihed, teknologiske løsninger til næsten alle behov og effektiv produktion.

In partnership with Jansen AG, Schüco offers solutions for façade, door and window technology as well as security and safety constructions from high quality steel tubes and steel profile systems both in Germany, and in other selected countries. In this way, Schüco is opening a new dimension in system expertise: architectural freedom, technological solutions for almost all requirements and efficient fabrication are ideally complemented.

Schüco Denmark ApS
www.schueco.dk

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www.schueco.en/press
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Schüco – systemløsninger til vinduer, døre og facader.
Sammen med sit verdensomspændende netværk af metal, PVC og elektropartnere, arkitekter, producenter og investorer, skaber Schüco bæredygtige klimaskærme, der fokuserer på mennesker og deres behov i harmoni med natur og teknologi. Metal og PVC vinduer-, døre- og facadeløsninger fra Schüco imødekommer de højeste krav inden for design, komfort og sikkerhed. Alt imens CO_2 udledning er reduceret gennem energieffektivitet og dermed bliver de naturlige ressourcer bevaret. Virksomheden leverer specialprodukter til nybyggeri og renoveringer og er designet til at imødekomme alle klimazoner. Alle involverede bliver støttet med en omfattende udvalg af services i hvert skridt i byggeprocessen. Med 4630 ansatte og 12.000 samarbejdspartnere, er Schüco til stede i mere end 80 lande og opnåede i 2015 en omsætning på 1,430 millioner euro.

Mere information findes på: www.schueco.dk.

Schüco – System solutions for windows, doors and façades.
Together with its worldwide network of metal, PVC-U and electrical partners, as well as architects, specifiers and investors, Schüco creates sustainable building envelopes that
focus on people and their needs in harmony with nature and technology. Metal and PVC-U window, door and façade solutions from Schüco meet the highest requirements in terms of design, comfort and security. At the same time, CO_2 emissions are reduced through energy efficiency, thereby conserving natural resources. The company delivers tailored products for newbuilds and renovations, designed to meet individual user needs in all climate zones. Everyone involved is supported with a comprehensive range of services at every stage of the construction process. With 4,630 employees and 12,000 partner companies, Schüco is active in more than 80 countries and achieved a turnover of 1.430 billion euros in 2015.

For more information, visit www.schueco.com

SCHÜCO
Stahlsysteme
JANSEN

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Mærket "Schüco" er beskyttet i Tyskland og på diverse internationale markeder. Vi giver detaljeret information på forespørgsel.

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