



Uniclass	L413:P7114
CI/SIB	(31.4)Xn6

Specifiers Guide



► Corporate Profile

Kömmerling is part of profine GmbH, along with the KBE and Trocal brands, with the group headquarters in Troisdorf, Germany. Collectively we have over 3,000 employees in 29 locations in 22 countries, with a production capacity of 450,000 tons annually of high-quality PVCu profiles.

Today, PVC-u is the most successful window material and its market share is constantly growing. In residential construction, the replacement market share is currently over 80% and PVC-u is also the preferred material choice of many specifiers. Kömmerling offers a large number of window and door systems each designed with impressive technical innovations and manufactured with our exclusive lead-free Greenline compound.

Efficiency, design, function, physical properties, environmental protection and responsible handling of raw material resources meet the highest requirements. These elements provide benefits for the client, specifiers and fabricators through the availability of high performance and proven systems.

Our C70 and O70 Gold systems are highly energy efficient and are available in over 40 colours and with the AluStar system we can offer a near limitless number of RAL colours on the aluminium outside face. We also have an 88mm system which is Passivhaus certified and can reach U-values as low as 0.6 W/m²K. The C70 Gold® systems is also available in hot climate material and therefore can be used in geographical areas of extreme temperatures across the world.

With the Kömmerling brand, we face the challenges of the future with confidence, honesty and transparency. Enabling us to continue our position as Europe's most innovative profile systems company.

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► Environment - Greenline

For more than a century Kömmerling has invested in research and innovation, improving quality of life to the benefit of each and every one of us. Controlled technology has enabled the brand to offer products of an exceptional quality particularly in terms of PVC-u profiles for windows.

Today, our position as one of the leading PVC-u suppliers requires us to go even further to anticipate the inherent responsibilities of an industry that is faced with the challenge of preserving a balanced and harmonious environment.



The PVC-u industry made a voluntary commitment to the EU Environment Commission to eliminate the use of lead stabilisers from PVC-u profiles by 2010, extended to 2015. This was welcomed as the "Vinyl 2010" initiative and profine undertook this change in 2003 / 2004 making the move to calcium-zinc and completely eliminating lead from the extrusion process.

These changes were undertaken at no cost to our clients and became Greenline, the most environmentally friendly profile available. In addition to this proactive environment initiative we also seek to collect fabricator off cuts and recycle this material into the extrusion system.

Greenline is a concept that has been perfected to preserve the natural resources by working in three convergent directions:

- Ensuring the ongoing improvement of the window system's performance providing thermal insulation which reduces on energy consumption and improves sound insulation.
- Recycling the basic raw materials (PVC-u, glass and steel) by reusing them in the production cycle – thus improving efficiency by using less raw materials and energy.
- Optimising the use of raw material components; the end product is more refined which ensures longevity and increases the life-span of the PVC profiles.



Environment - Recycline ◀

Recycline, an initiative to reduce PVC-u waste by 100%, provides a complete service for Kömmerling fabricators to ensure window profiles are efficiently recycled. Using the latest processing technology and a full integrated collection and distribution system, fabricators and their customers can enjoy sustainable windows with minimal disruption.

The European PVC-u industry, Vinyl 2010 initiative, actively encourages members to invest and realise the advantages of recycling and Recycline does exactly that. Recycline, a profine Group recycling initiative, directly tackles many environmental and legislative issues whilst delivering a cost effective service to all fabricators.

Due to its unique properties, PVC-u is widely recognised as one of the best and most fit-for-purpose materials for windows and doors. Durable for 50 years or more PVC-u can tolerate all weather conditions and extreme temperatures. PVC-u once discarded, however, may last for hundreds of years without degrading in landfill. Rather than dispose of a valuable and durable material, Recycline endeavours to recycle PVC-u, significantly reducing the burden on landfill sites.

The Recycline Process

- ▶ Partners of the Recycline initiative dispose of all off-cuts and other profile waste produced in allocated cages, which are located onsite.
- ▶ Once the cages are full with profile waste, they are collected and emptied by Recycline lorries.
- ▶ Recycline lorries then transport the waste to the processing plant where both the PVC-u and rubber is ground into granules.
- ▶ The granules are then put through a sortex machine which separates the PVC-u granules from the rubber.
- ▶ PVC-u granules are then transported back to Germany to be reprocessed into PVC-u.

► Energy Efficiency

Consumers, specifiers and legislators are increasingly focusing on the energy efficiency of building products. To respond to the challenge of raised expectations, the British Fenestration Rating Council (BFRC), in conjunction with the UK glazing industry and European partners has designed a window rating system to meet this need for simple and accurate information.



The BFRC provides third party certification for the total thermal performance of windows using a 'fair, accurate and credible' assessment scheme, as does Certass with their Thermal Rating Register (TRR). Windows are rated using the familiar A to G scale on the basis of their total energy efficiency, where an A-rated window is more energy efficient than a G-rated window. Consumers and specifiers can quickly and easily choose the most suitable window for their needs. Government inspectors and agencies can quickly and easily see if the window meets the legal requirements and energy agencies can see if the window meets their criteria for support.

The Window Energy rating assesses the whole window energy performance and covers the frame material, the frame design, the glass type and all the other components that make up the window. The rating is carried out by computer simulation and gives a single number that can be used to compare the energy performance of a window simply and quickly.

Window Energy Ratings (WERs):

- ▶ allow consumers to rapidly compare the energy efficiency of competing products
- ▶ allow specifiers to select windows based on a validated performance figure.
- ▶ allow legislators and others to ensure that fitted windows meet the legal requirements.
- ▶ allow energy agencies to direct support to energy efficient products.
- ▶ provide a method to link thermal window performance to other thermal assessment systems.

Kömmerling window systems are capable of achieving 'A' to 'C' ratings depending upon window configuration and glass type and we now have our own in-house assessors. Please contact the Kömmerling technical department for further information.

'U-values'

'U-values' are now also part of the latest Building Regulations which come into effect on 1st October 2010, where it is stated that any installed window must be a 'C' rating under the WERs or have a 'U-value' of 1.6. 'U-values' are widely used across Europe as a means to assess the thermal performance of building products and this includes the UK new build and refurbishment markets.

Kömmerling has a wide range of products that can achieve 'U-values' to meet any specification including Passivhaus and that includes our impressive 88 Plus system and a number of aluminium/pvc composite systems.

Energy Savings Calculator



1st step
Total window surface

Total surface of all windows:
25 m²

2nd step
Old windows - new windows

Currently installed windows:
PVC-U double glazing
U-value of the old windows:
3 W/m²K

Your new windows:
PVC-U building depth 70mm
U-value of the new windows:
1,3 W/m²K

3rd step
Your heating

Which heating material do you use?
Gas

Current gas price:
7 p / kWh

Assumed price increase:
5 % / year

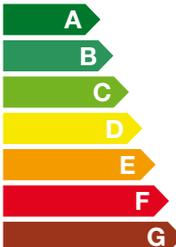
Your savings:

Savings in the first year:
369,00 £ **1.328 kg CO₂***



Energy Window

Energy Windows Ltd
XYZ 68/abc

	C
<p>Energy Index (kWh/m²/year) <small>(Energy Index certified by BFRIC and based on UK standard window. The actual energy consumption for a specific application will depend on the building, the local climate and the indoor temperature)</small></p>	-14
<p>The climate zone is:</p>	UK
<p>Thermal Transmittance (U_{window}) Solar Factor (g_{window}) Effective Air Leakage (L_{factor})</p>	<p>1.7 W/m².K 0.50 0.10 W/m².K</p>

 www.bfrc.org

This label is not a statutory requirement. It is a voluntary label provided as a customer service to allow consumers to make informed decisions on the energy performance of competing products.

According to GEMIS 4.4 including carbon footprint and CO₂ equivalents. The calculations are based on assumptions made in common practice. In case of deviations from these assumptions, the results might slightly vary.

► Passivhaus

Passivhaus buildings provide a high level of occupant comfort while using very little energy for heating and cooling. They are built with meticulous attention to detail and rigorous design and construction according to principles developed by the Passivhaus Institute in Germany, and can be certified through an exacting quality assurance process. Our KBE System 88 product already carries Passivhaus Certification.

According to the Passivhaus Trust, a body that profine UK Ltd is part of, to achieve the Passivhaus Standard in the UK typically involves:

- ▶ very high levels of insulation
- ▶ extremely high performance windows with insulated frames
- ▶ airtight building fabric
- ▶ thermal bridge free' construction
- ▶ a mechanical ventilation system with highly efficient heat recovery

With pan-European brands including Kömmerling, the German-based profine Group has considerable experience in such projects both for the commercial and one-off residential applications. Within the Kommerling portfolio are a number of products that can achieve Passivhaus standards including the KBE System 88 and the new lift and slide PremiDoor 88.



Quality Standards ◀

As one of Europe's most innovative window and door systems company, you can be assured that the quality of our products is equally matched by the standards we work to both in the UK and all across Europe. We carry extensive accreditations and our test report is further evidence of our commitment and ability to deliver the very best environmentally sensitive window and door systems.

As a Group we carry ISO 9001:2008 and most recently the ISO 50001 standard for the energy management system we operate in Pirmasens, Germany. Profine has reorganised its energy management, set itself binding energy targets and has consistently expanded its present energy management system.

These energy targets include a specific saving in extrusion energy of at least 3.5% in the first year. At present, the company is heading in the right direction supported by the latest pumping technology, with other technical improvements planned for the future. These also address personnel awareness, above all in the electricity intensive fields.



DIN EN ISO 9001:2008 Cert no. FM 601076



KM51959 BS7950/BS EN 12608
KM 56435 BS7950/BS EN 12608



KM 13356 BS EN 12608
KM 27876 BS EN 12608



Secured by Design certification is available from a number of our manufacturers. Please contact us for further details.



► Test Certificates

Many PVC-u profile extrusion companies boast of the quality of their product. This section is dedicated to those organisations that wish to discover the sheer extent of the uncompromising quality of Kömmerling window systems and the evidence to prove it.

One of several case studies undertaken shows that Kömmerling PVC-u profiles do indeed stand the test of time. The below case study provides real-life examples that confirm Kömmerling's position as Europe's most dynamic brand for PVCu window and door profiles.

Case Study: Fifteen years of exposure to the extreme climate and temperature fluctuations of Bernina in Switzerland - the perfect environment to test the longevity of any window installation and the ideal platform to provide solid evidence of the durability of Kömmerling profiles.

The Albergo Ospizio Bernina, situated at a height of 2,309 metres, was fitted in 1976 with Kömmerling PVC-u windows. In 1991 two of the fifteen year-old windows were removed and tested.

The uniqueness of the region, which is continuously exposed to long periods of hard frost, violent storms, an inhospitable climate and increased radiation, provides the perfect opportunity for a thorough examination of the windows durability.

The results of the tests carried out on the windows showed that they were in excellent condition, both visually and technically. The sash rebate seal still functions correctly and has suffered no impairment. The pivoting point, which is subject to the greatest wear, is still fully intact and all the metal components are free of any corrosion.

Test Results:

- 1966-1996 Test Report NO. E59063199**
- 1969-1984 Test Report NO. 6921185**
- 1969-1986 Test Report NO. 20292/87-1**
- 1976-1991 Test Report NO. 136 066**

Specifier Support ◀

Combined with the resources of the group, Kömmerling is able to provide a comprehensive range of commercial support to all fabricators, installers and specifiers.

The following elements provide an example of what we can offer to Kömmerling fabricators and specifiers:

- ▶ Approved Lists
- ▶ Accreditations
- ▶ CAD drawings inc section details
- ▶ Literature
- ▶ Partnering / Procurement
- ▶ Performance achievements
- ▶ Recycling
- ▶ Site surveys
- ▶ Specifications
- ▶ Structural calculations inc load bearings
- ▶ Sustainability
- ▶ Any other technical questions

These matters are actioned by an experienced team who have considerable expertise in the PVC-u market. Our technical department is fully equipped to deal in all matters pertaining to technical support including Window Energy Ratings (WERs) and is there to assist you in a variety of ways.

Fabricator Network

We have an experienced nationwide network of fabricators and installers who specialize in commercial projects in all forms from small projects in the hotel and leisure industry to large public sector projects.

By working closely with Kömmerling, our customers are able to better meet the needs of architect, building contractor and specifier.



► C70 Gold® Maximum Sizes

In order to perform within given design criteria, it is necessary to observe the following chart with reference to maximum permitted manufacturing sizes.

Width and Height are given in millimetres. **When making calculations, the figure for square area shall supersede width and height figures.**

White Profiles	Width	Height	Area	Weight	
7581					
Top Hung	1200	1200	1.0m ²	40kg	
Side Hung	900	1600	1.2m ²	40kg	
7582, 7512					
Top Hung	1200	1200	0.8m ²	40kg	
Side Hung	900	1600	1.0m ²	40kg	
395					
Tilt and Turn	1450	2100	2.0m ²	100kg	
7584, 7585					
Single Door	1000	2250	2.1m ²	150kg	
Single Door	1100	2350	2.3m ²	150kg	With corner joint No: 185
Double Door	800	2250	1.7m ²	90kg	
Double Door	900	2350	2.0m ²	90kg	With corner joint No: 185

Non White Profiles	Width	Height	Area	Weight	
7581					
Top Hung	1200	1200	1.0m ²	40kg	
Side Hung	900	1600	1.2m ²	40kg	
7582, 7512					
Top Hung	1200	1200	0.8m ²	40kg	
Side Hung	900	1600	1.0m ²	40kg	
395					
Tilt and Turn	1450	2100	2.0m ²	100kg	
7584, 7585					
Single Door	1000	2250	2.1m ²	150kg	
Single Door	1100	2350	2.3m ²	150kg	With corner joint No: 185
Double Door	800	2250	1.7m ²	90kg	
Double Door	900	2350	2.0m ²	90kg	With corner joint No: 185

1. Additional Information

- 1.1 Maximum permitted size for white elements, 6m.
- 1.2 Maximum permitted size for non white elements, 4m.
- 1.3 No profile length shall exceed 4m for white elements, 2.5m for non white.
- 1.4 No profile length shall exceed 3m for white fixed frames, 2.5m for non white.
- 1.5 All information given can only be valid provided system specific reinforcing has been adhered to.
- 1.6 All recommendations are subject to hardware specific requirements.

070 Gold® Maximum Sizes ◀

In order to perform within given design criteria, it is necessary to observe the following chart with reference to maximum permitted manufacturing sizes.

Width and Height are given in millimetres. **When making calculations, the figure for square area shall supersede width and height figures.**

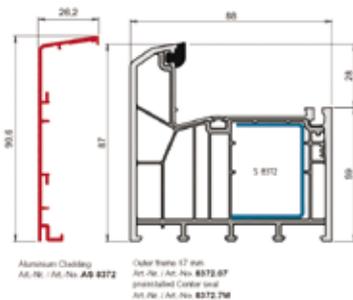
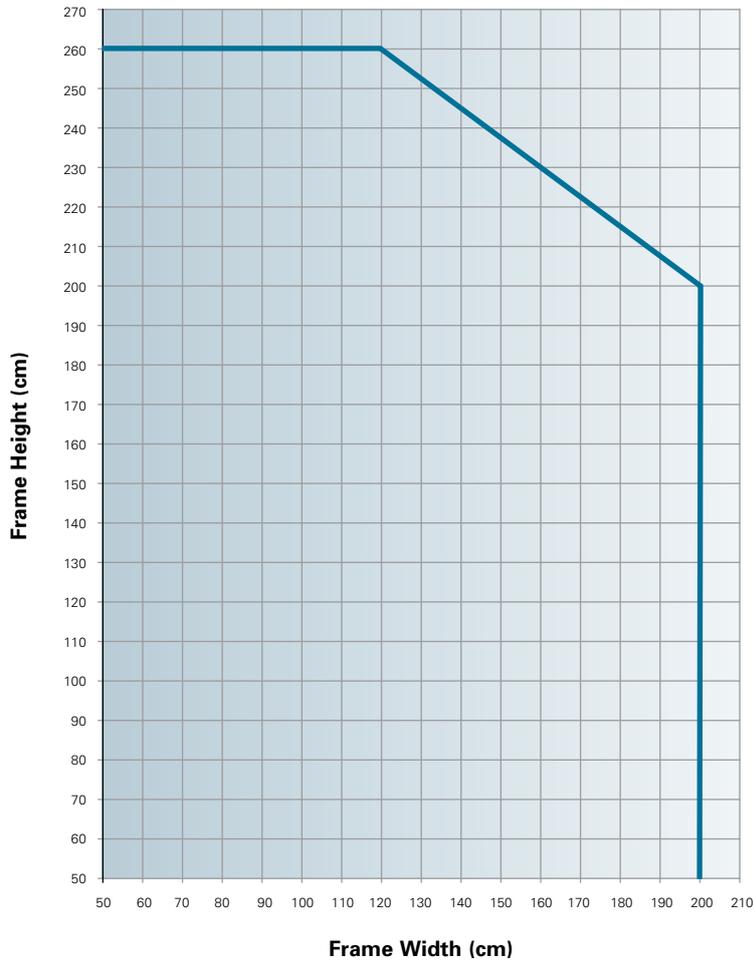
White Profiles	Width	Height	Area	Weight	
2917					
Top Hung	1200	1200	1.0m ²	40kg	
Side Hung	900	1600	1.2m ²	40kg	
2910					
Tilt and Turn	1450	2100	2.0m ²	100kg	
2915, 2916					
Single Door	1000	2250	2.1m ²	150kg	
Single Door	1100	2350	2.3m ²	150kg	With corner joint No: 185
Double Door	800	2250	1.7m ²	90kg	
Double Door	900	2350	2.0m ²	90kg	With corner joint No: 185
2910					
Tilt and Slide	1300	2100	2.5m ²	100kg	
2915					
Tilt and Slide	1500	2300	3.0m ²	100kg	

Non White Profiles	Width	Height	Area	Weight	
2917					
Top Hung	1000	1000	1.0m ²	40kg	
Side Hung	900	1500	1.0m ²	40kg	
2910					
Tilt and Turn	1300	1900	1.8m ²	100kg	
2915, 2916					
Single Door	1000	2100	2.0m ²	150kg	
Single Door	1100	2250	2.1m ²	150kg	With corner joint No: 185
Double Door	800	2100	1.6m ²	90kg	
Double Door	900	2250	2.0m ²	90kg	With corner joint No: 185
2910					
Tilt and Slide	1200	2100	2.5m ²	100kg	
2915					
Tilt and Slide	1500	2100	3.0m ²	100kg	

1. Additional Information

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- 1.5 All information given can only be valid provided system specific reinforcing has been adhered to.
- 1.6 All recommendations are subject to hardware specific requirements.

► KBE System 88 Maximum Sizes

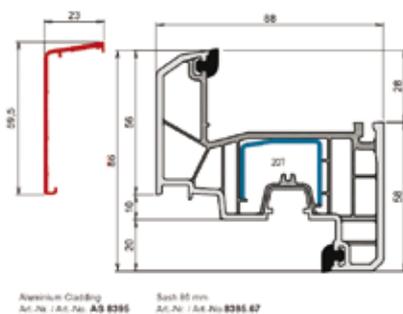
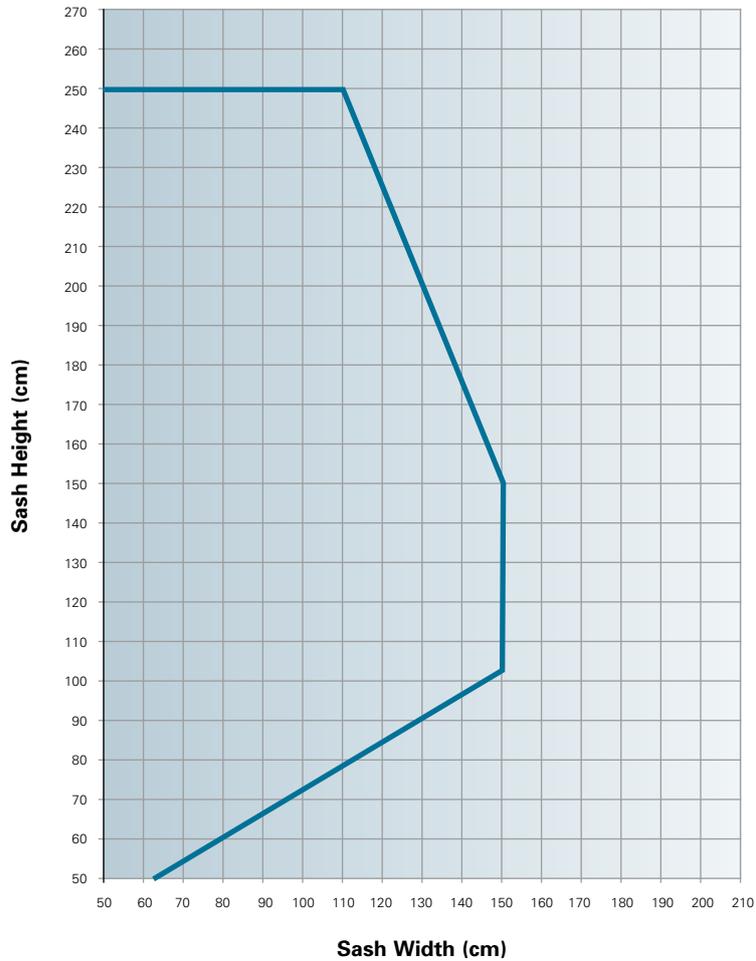


Notes on side- and centre-hung windows

The listed sash sizes were selected on the basis of the hardware and permitted total weight. The sash width must not be greater than the sash height by more than 25%.

Overlarge windows from 235 cm require the approval of the hardware manufacturer.

KBE System 88 Maximum Sizes ◀

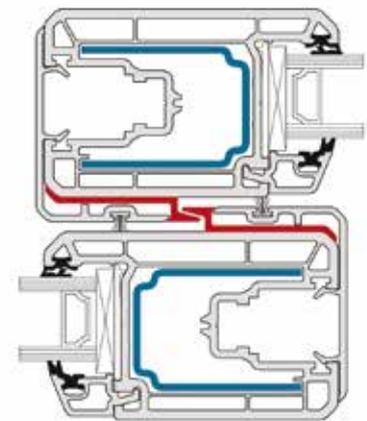
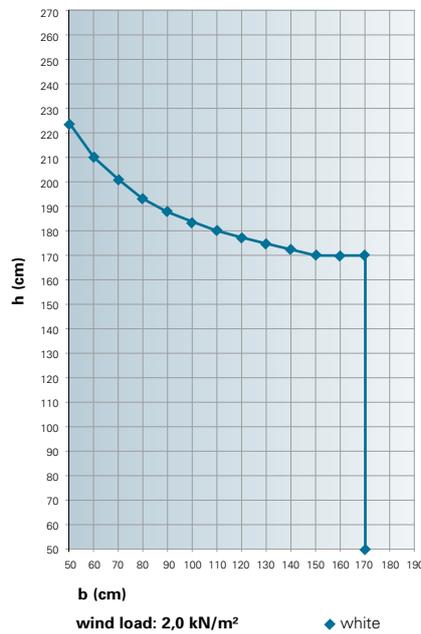
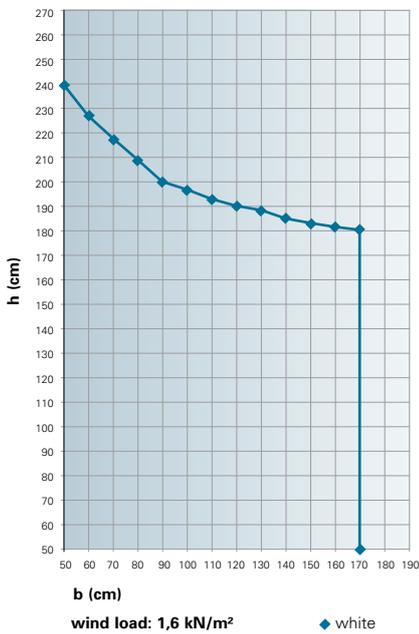
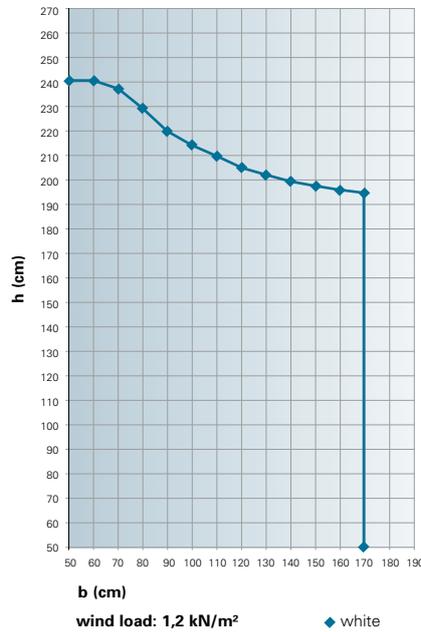
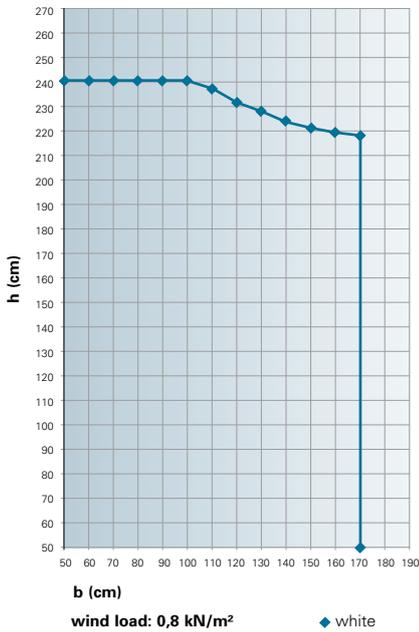


Notes on side- and centre-hung windows

The listed sash sizes were selected on the basis of the hardware and permitted total weight. The sash width must not be greater than the sash height by more than 25%.

Overlarge windows from 235 cm require the approval of the hardware manufacturer.

► PremiLine Maximum Sizes



for art. no. 6041 in conjunction with reinforcement art. no. V 106 with pull art. no. 9C58

The sash width must not be greater than the sash height by more than 25%!

The sash graphs apply to a max glass weight \leq 80 kg.

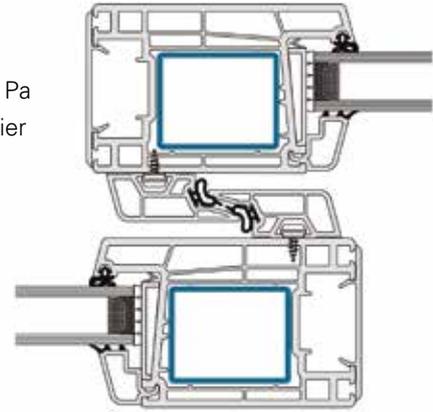
For 80–130 kg the max sizes must be reduced by 20%.

(This reduction can be obtained with Pos.1 - bonding or replacing rebate angles; first consult the application technology division.)

PremiDoor Maximum Sizes ◀

Sash sizes

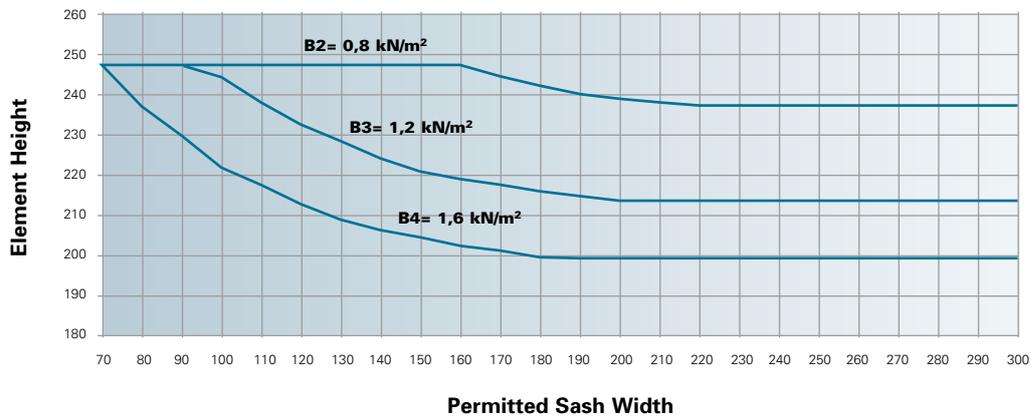
f perm. =	L/200
wind load as per DIN EN 12210	B2 800 Pa / B3 1200 Pa / B4 1600 Pa
min sash width	based on hardware type and supplier
max sash weight	350 kg
max element size	in non-white colours 500 x 240 cm



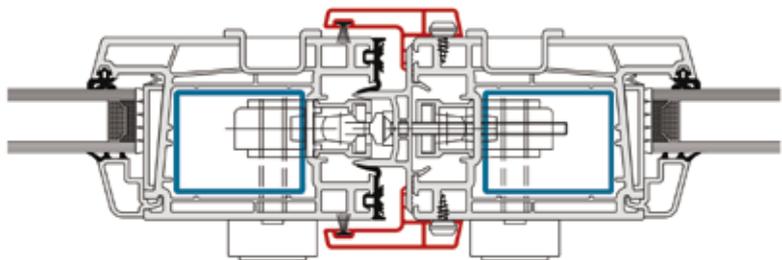
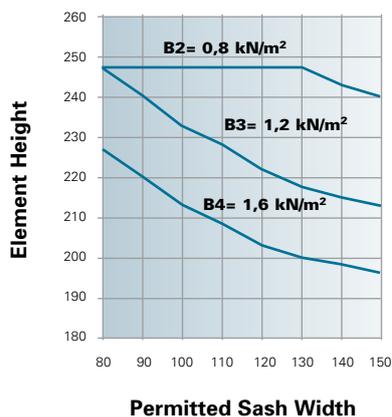
IMPORTANT

Glass weight and sash size depend on the hardware's loading capacity.

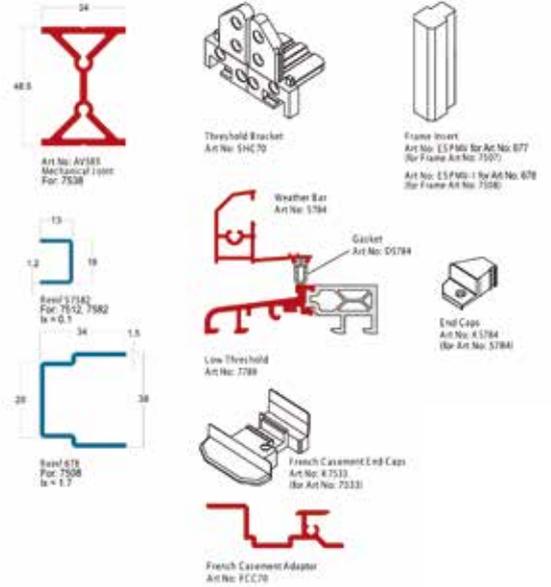
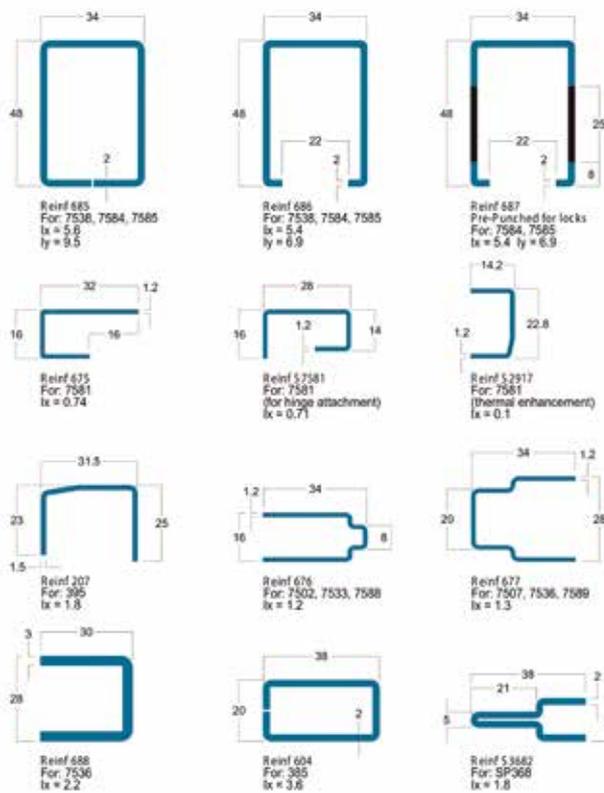
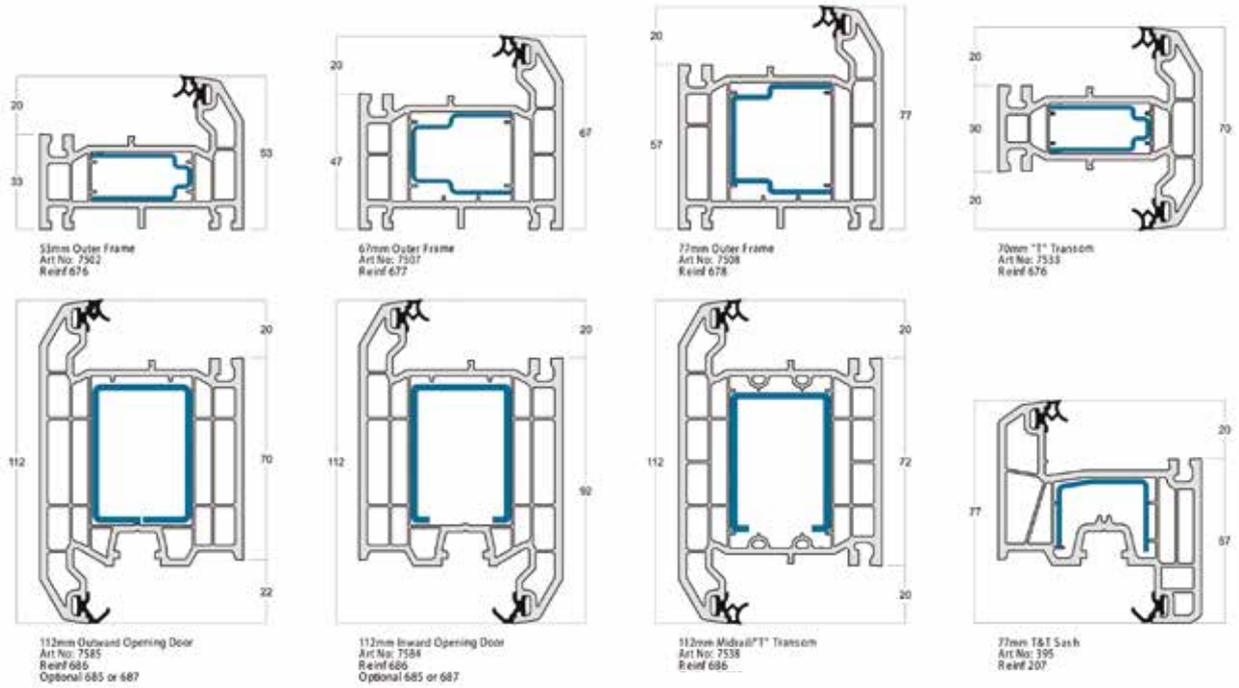
Standard centre section Systems A, D, K, G



Centre section, floating mullion sash, Systems C, F

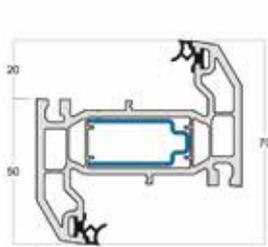


► C70 Gold® - Profile Chart

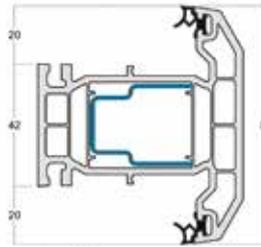


- Plastic
- Aluminium
- Recycled Plastic
- Rubber
- Steel
- Other

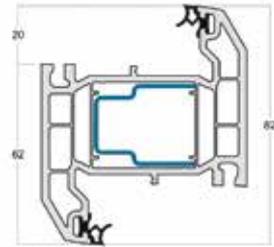
C70 Gold® - Profile Chart ◀



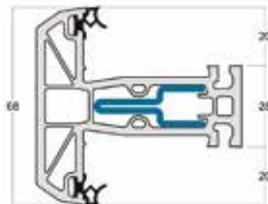
70mm "Z" Transom
Art No: 7588
Reinf 676



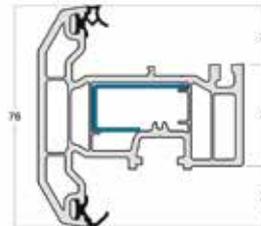
82mm "T" Transom
Art No: 7536
Reinf 677



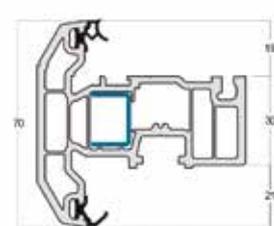
82mm "Z" Transom
Art No: 7589
Reinf 677



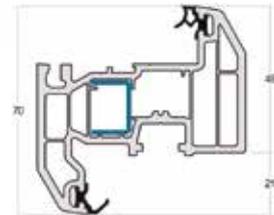
68mm T&I Sash Transom (for 395 only)
Art No: 57368
Reinf 53682



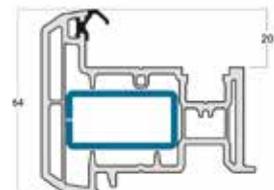
76mm Casement Sash
Art No: 7581
Reinf 675
(Alternative 57581, for hinge attachment)



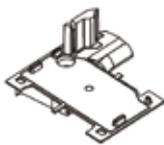
70mm Casement Sash with feature line
Art No: 7582
Reinf 57582



70mm Casement Sash externally beaded
Art No: 7512
Reinf 57582



French Door Reverser
Art No: 385P
Reinf 604



Threshold Seal
Art No: DK7507 for frame Art No: 7507
Art No: DK7508 for frame Art No: 7508



Glazing Bridge
Art No: KBC70



Glazing Bridge
Art No: KBC702
(for Art No: 7582)



Art No: 1933
24 mm Glazing



Art No: 320-04
24 mm Glazing



Art No: 070.2A
36 mm Glazing



Art No: 006.82
40 mm Glazing



Art No: 076-04
28 mm Glazing



Art No: 1932
28 mm Glazing



Art No: 096-04
28 mm Glazing



Art No: DP2
Casement Seal
Repair Gasket



Art No: DP7
Universal Seal
Repair Gasket



Art No: DP5
4mm Glazing Bead
Repair Gasket



Art No: DP4
2mm Glazing Bead
Repair Gasket



Arched Head Insert
For use with 076.04 bead only
28mm and 34mm units
Art No: AHC70



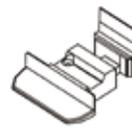
Interlocking Wedges
Art No: IWC70



Run Up Block
Art No: 7199



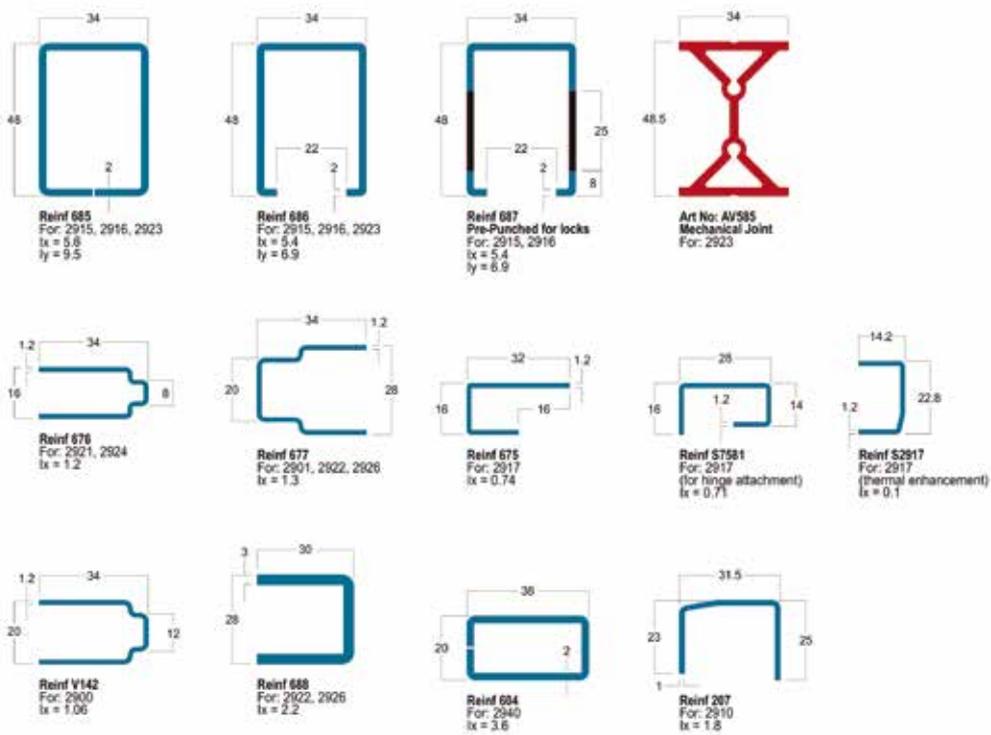
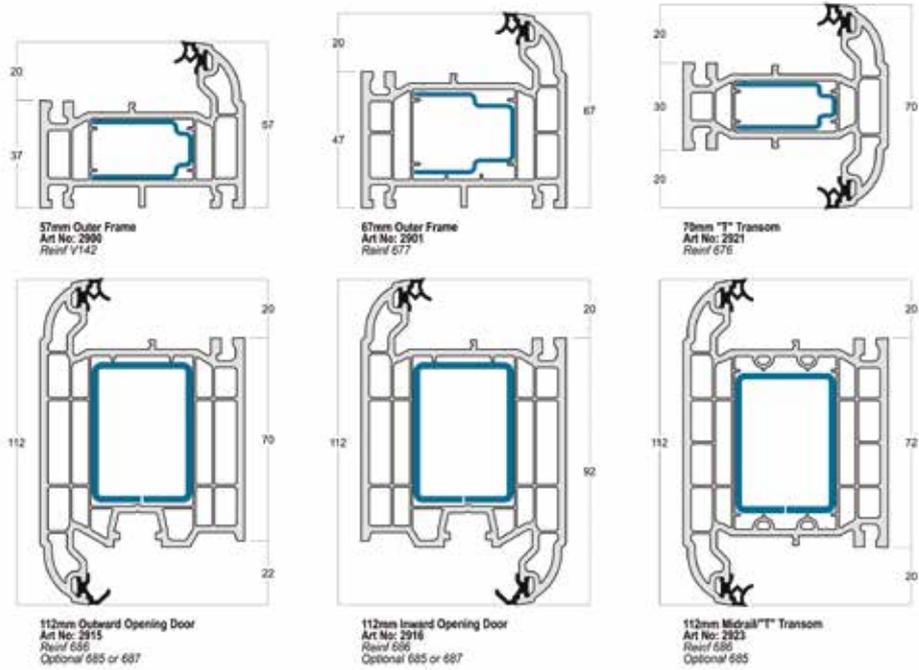
Sash Horn End Caps
Art No: RHC70



French Door End Caps
Art No: K385
(for Art No: 385P)

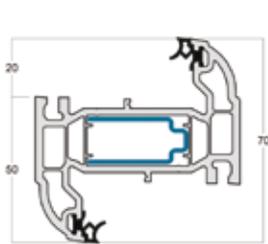
Cross section at 1:2 scale

► 070 Gold® - Profile Chart

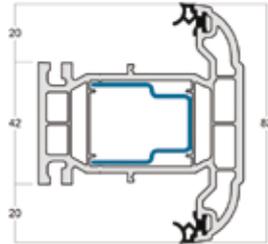


● Plastic
 ● Aluminium
 ● Recycled Plastic
 ● Rubber
 ● Steel
 ● Other

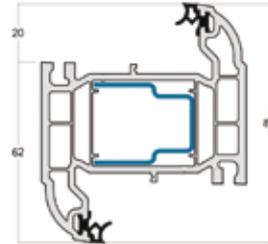
070 Gold® - Profile Chart ◀



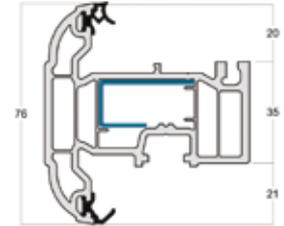
70mm "Z" Transom
Art No: 2924
Roof 576



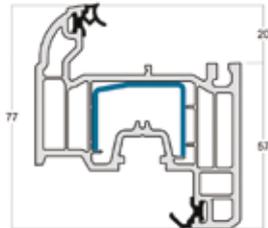
82mm "T" Transom
Art No: 2922
Roof 677



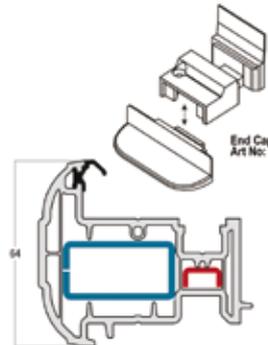
82mm "Z" Transom
Art No: 2926
Roof 677



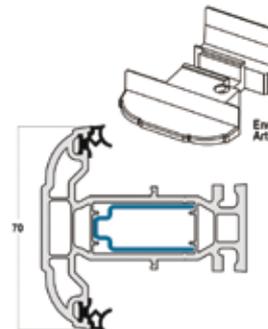
76mm Casement Sash
Art No: 2917
Roof 675 (alternative 57581, for hinge attachment)



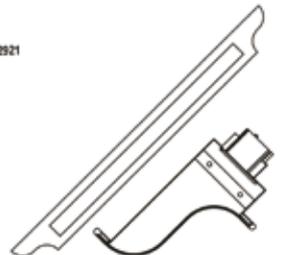
77mm T&T Sash
Art No: 2916
Roof 207



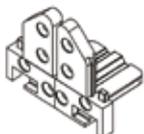
French Door Reverser
Art No: 2940
Roof 604



French Casement Reverser
Art No: 2921
Roof 676



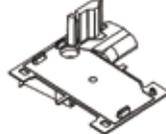
Sash Horn Kits
Art No: 9010D



Threshold Bracket
Art No: 5HC76



Frame Insert
Art No: ESP8V
(For Art No: 677)



Threshold Seal
Art No: 9016



Art No: 1933
24 mm Glazing



Art No: 320-04
24 mm Glazing



Art No: 075.2A
36 mm Glazing



Art No: 096.02
48 mm Glazing



Art No: 076-04
28 mm Glazing



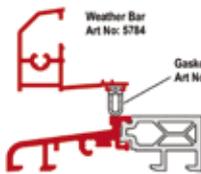
Art No: 1932
28 mm Glazing



Art No: 096-04
28 mm Glazing



Art No: J000
Sash Horn Bracket



Weather Bar
Art No: 5784



End Caps
Art No: K5784
(For Art No: 5784)



Aluminium Rebate Protector
Art No: 9371



Art No: DP2
Casement Seal
Repair Gasket



Art No: DP7
Universal Seal
Repair Gasket



Art No: DP5
4mm Glazing Bead
Repair Gasket



Art No: DP4
2mm Glazing Bead
Repair Gasket



Low Threshold
Art No: 7789



French Casement Adaptor
Art No: FCC75
(For Art No: 7533 & 2917)



Arched Head Inserts
For use with 676.04 bead only
28mm and 34mm units
Art No: ANCT8



Run Up Block
Art No: 7199

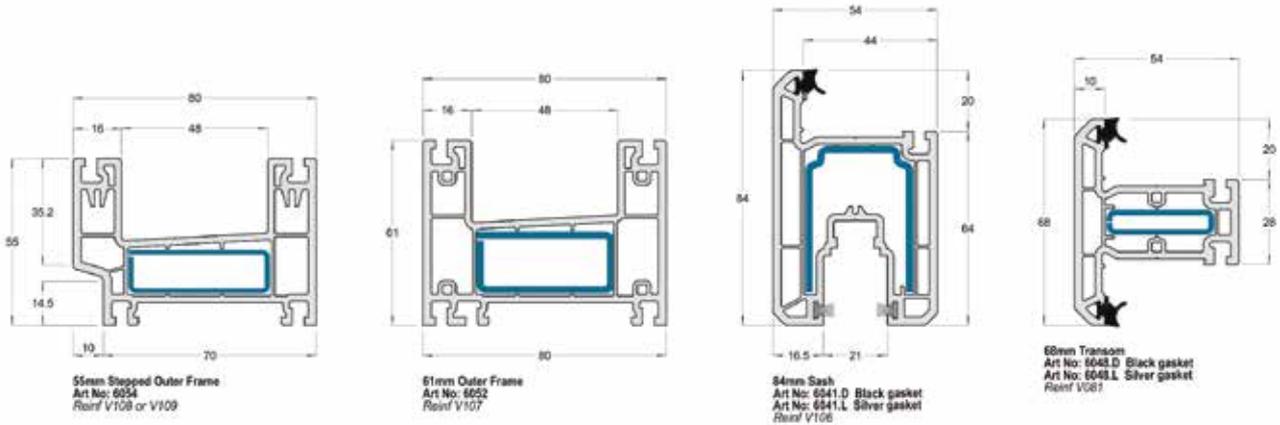


Interlocking Wedges
Art No: IWCT0



Glazing Bridge
Art No: KBC70

► Premiline - Profile Chart



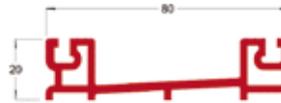
Pre-routed Bead
(For Art No: 6049)
Art No: 6052.D Black Gasket
Art No: 6052.L Silver Gasket



Meeting Sile
(For multi sash elements)
Art No: 6067



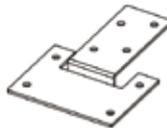
Sealing Piece
(For 6052 mech joint)
Art No: 9C97



Aluminium Threshold
Art No: 9C86



Drainage Cover
(For frame rebate)
Art No: 6066



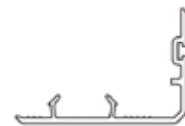
Mech Joint Bracket
(For frame 6052)
Art No: 9C52



Combination Interlock & Pull Grip
Art No: 9C58 White
Art No: 9C58 Bronze



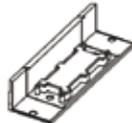
Sealing Piece
(For 6048 mech joint)
Art No: 9C50



Sash Cover/Interlock
Art No: 6051 White
Art No: 6051 Foiled
Art No: 6051 Foiled on White



Ala Interlock
Art No: 9C61



Sealing Piece
(For 6049 mech joint)
Art No: 9C49



Threshold Cover
Art No: 9C62 Silver
Art No: 9C62 White
Art No: 9C62 Bronze



Interlock End Cap
(For 6051)
Art No: 9C60



End Caps
(For 9C58)
Art No: 9C68 White
Art No: 9C68 Brown



Frame Cover
Art No: 6064 White
Art No: 6064 Foiled



Track
Stainless Steel
Art No: 9C53



Frame Infill
Art No: 179



Drip Bar
Art No: 174
End Caps
Art No: 174



Fixing Stud
(For Art No: 174)
Art No: 194



Fixing Rail
(For Art No: 174)
Art No: 773



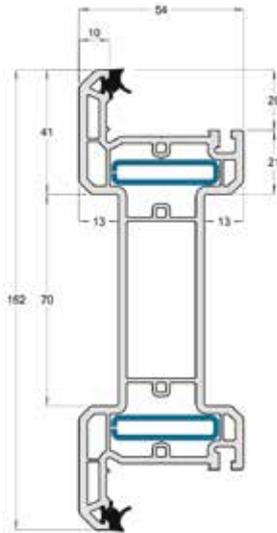
Repair Gasket
Art No: 9B14T Black
Art No: 9C32T Silver



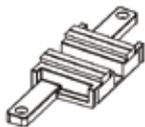
Brush Seal
Art No: 9090

● Plastic ● Aluminium ● Recycled Plastic ● Rubber ● Steel ● Other

Premiline - Profile Chart ◀



152mm Midrail
Art No: 6049.D Black gasket
Art No: 6049.L Silver gasket
Reinf V067



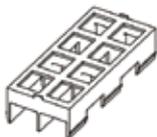
Frame Centre Sealing Piece
Includes brush seals
Art No: 9C63



Distance Piece
(For fixed sash)
Art No: 9C54



Frame Centre Sealing Piece
Includes brush seals (For 9C66)
Art No: 9D01

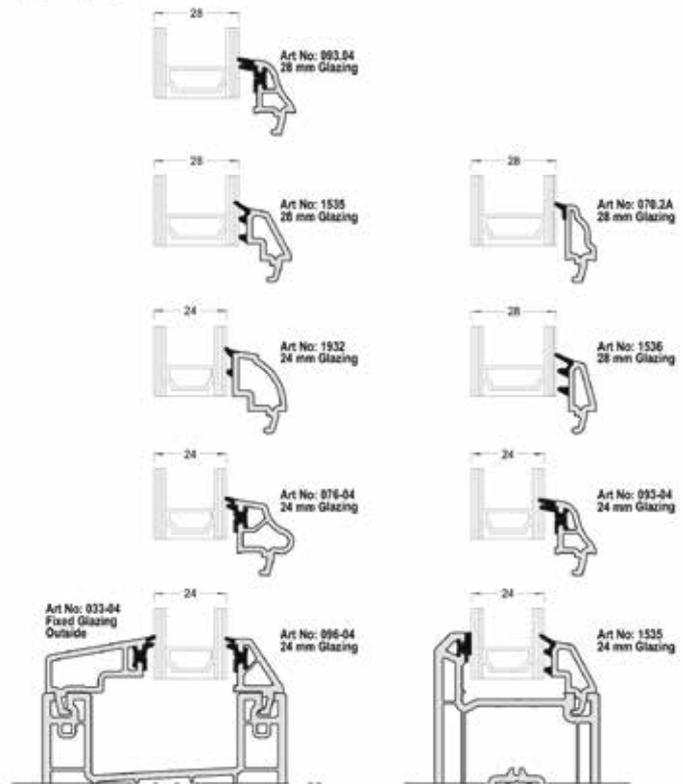


Glazing Bridge
(For outer frame)
Art No: 9C55



Glazing Bridge
(For sash)
Art No: 9C56

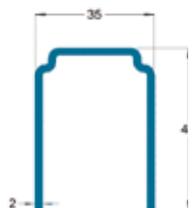
Glazing Options



Reinf V109
(For 6054)
lx = 4.8



Reinf V107
(For 6052)
lx = 5.3



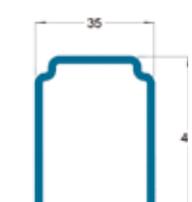
Reinf V106
(For 6041)
lx = 5.3



Reinf V108
(For 6054)
lx = 3.3



Reinf V081
(For 6048 & 6049)
lx = 1.3

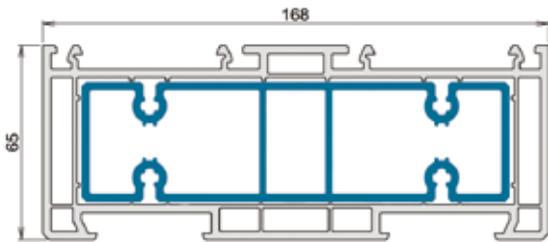


Reinf V136
(For 6041)
Pre-Punched for locks
lx = 5.3



Reinf V138
(For 6052 & 6054 Hardware attachment)

► PremiDoor - Profile Chart

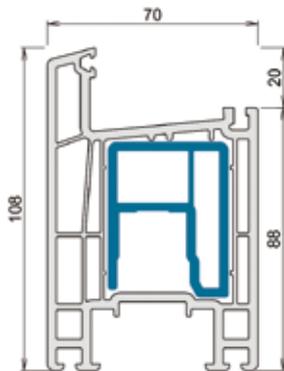
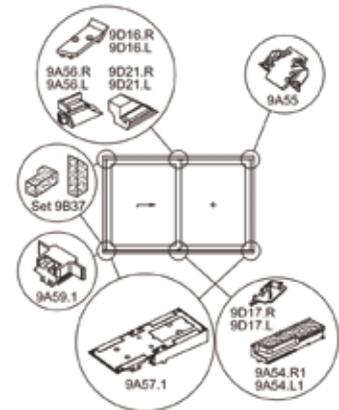


Frame
2870 6,00 m Length
2870.S 4,50 m Length

Gaskets

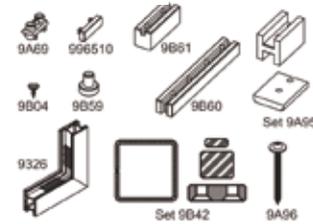


Sealing parts

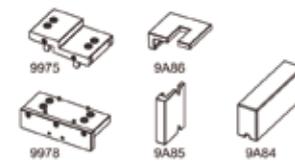


Sash
2420

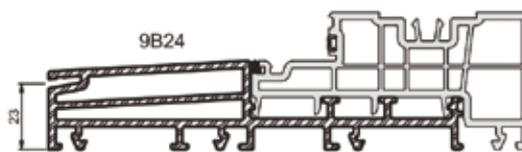
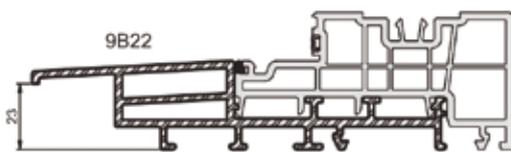
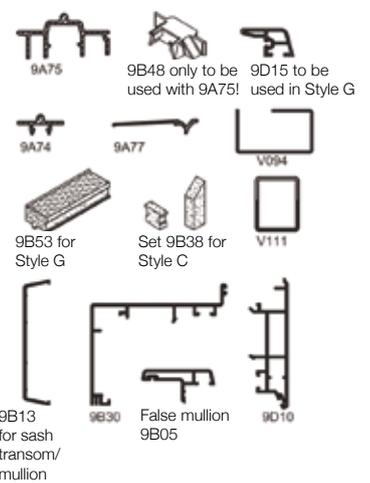
Accessories



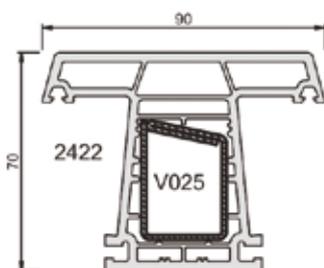
Tools and drill jigs



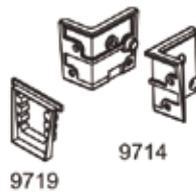
Parts for variants



Sash transom/mullion



Mech joint for sash transom/mullion



Glazing

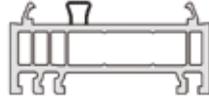
Glazing thickness per gasket	28 mm	24 mm
9044.1	2431	2433
9045.1	2432	2435

● Plastic ● Aluminium ● Recycled Plastic ● Rubber ● Steel ● Other

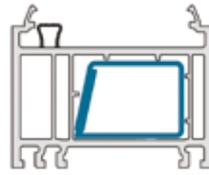
Ancillaries inc Georgian Bar & Casement Horns ◀



15mm Frame Extension
Art No: 0204.1



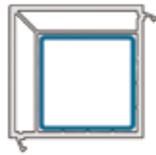
25mm Frame Extension
Art No: 0210.2



50mm Frame Extension
Art No: 0207.3



135° Bay Post
Art No: 6356



90° Bay Post
Art No: 0202



90° Bay Post
Art No: 355

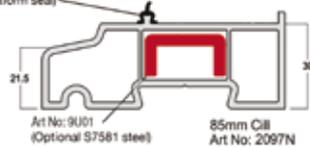


Variable Angle Bay Post
Art No: 340/341

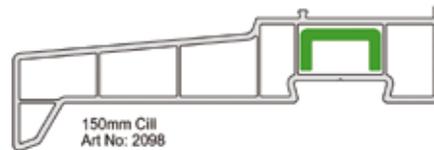


Variable Angle Bay Post
Art No: 9627

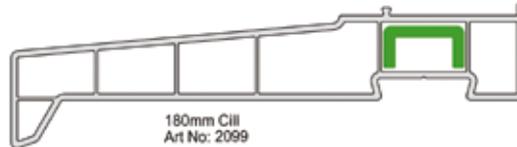
Art No: 9U00
(Optional platform seal)



Art No: 9U01
(Optional 97581 steel) 85mm Cill
Art No: 2097N



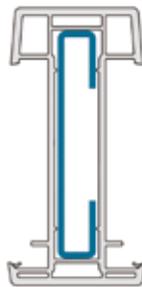
150mm Cill
Art No: 2098



180mm Cill
Art No: 2099



Art No: 1184



Art No: 352



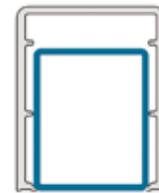
Art No: 151



Art No: 350



Art No: 0441



Art No: 154

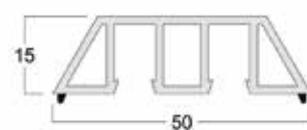
Astragal Bars



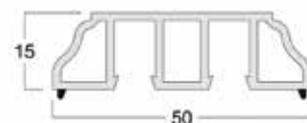
Art No: 2033



Art No: 2034



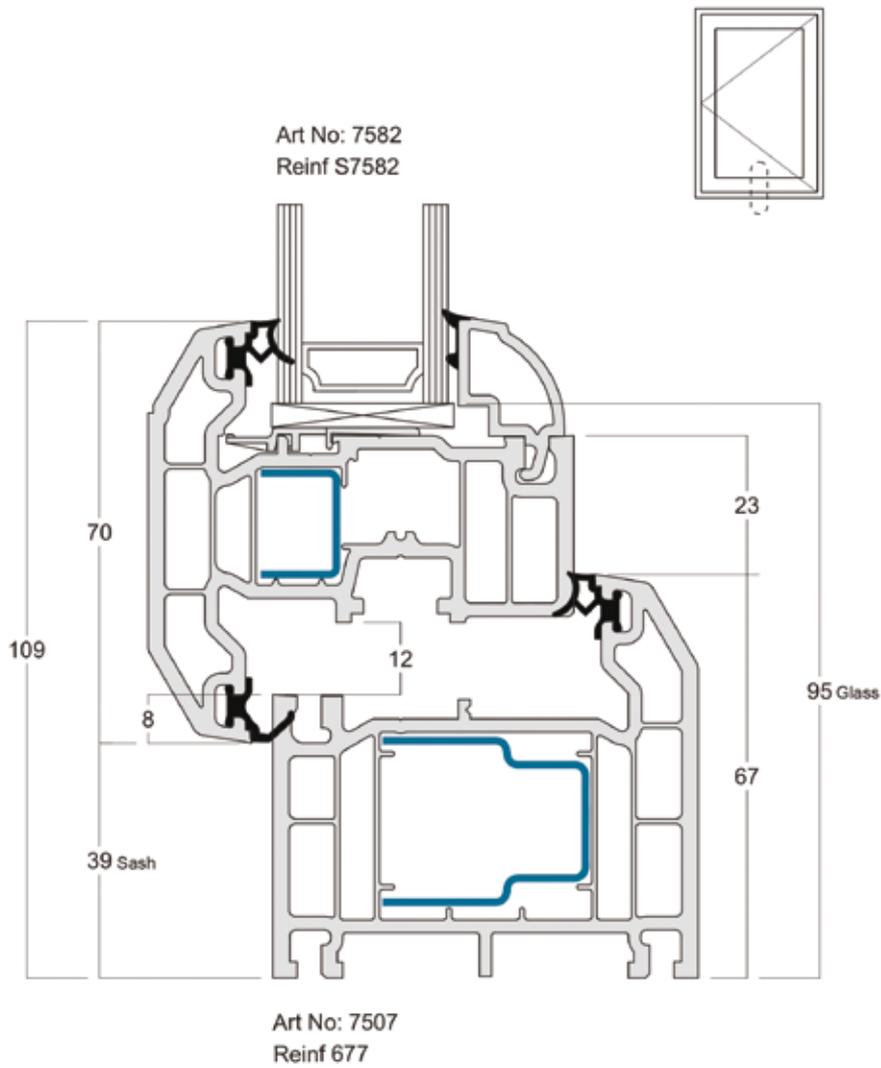
Art No: 1902



Art No: 1903

► C70 Gold® - Casement Cross Section

Can achieve
1.34
W/(m²K)
U_w

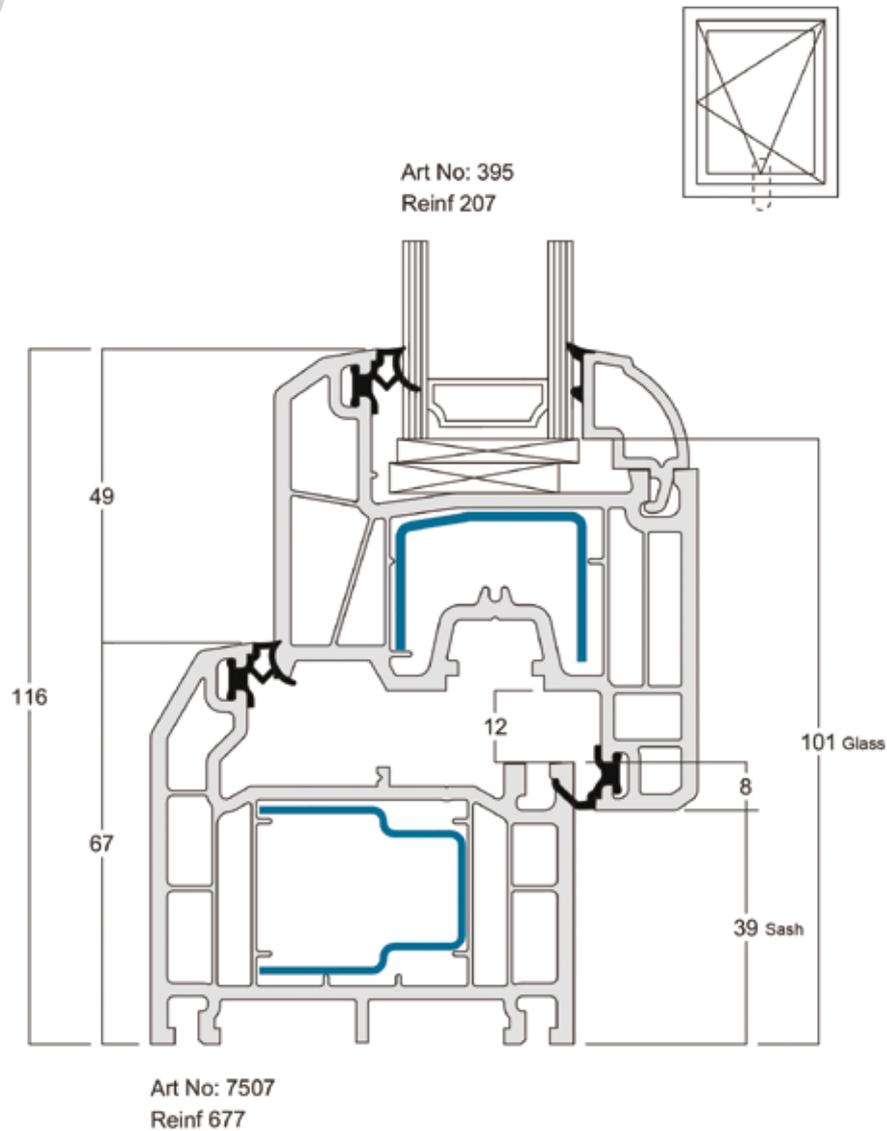


40mm triple glazed option will achieve 1.01 U-value.

● Plastic ● Aluminium ● Recycled Plastic ● Rubber ● Steel ● Other

C70 Gold® - Tilt and Turn Cross Section ◀

Can achieve
1.37
W/(m²K)
U_w

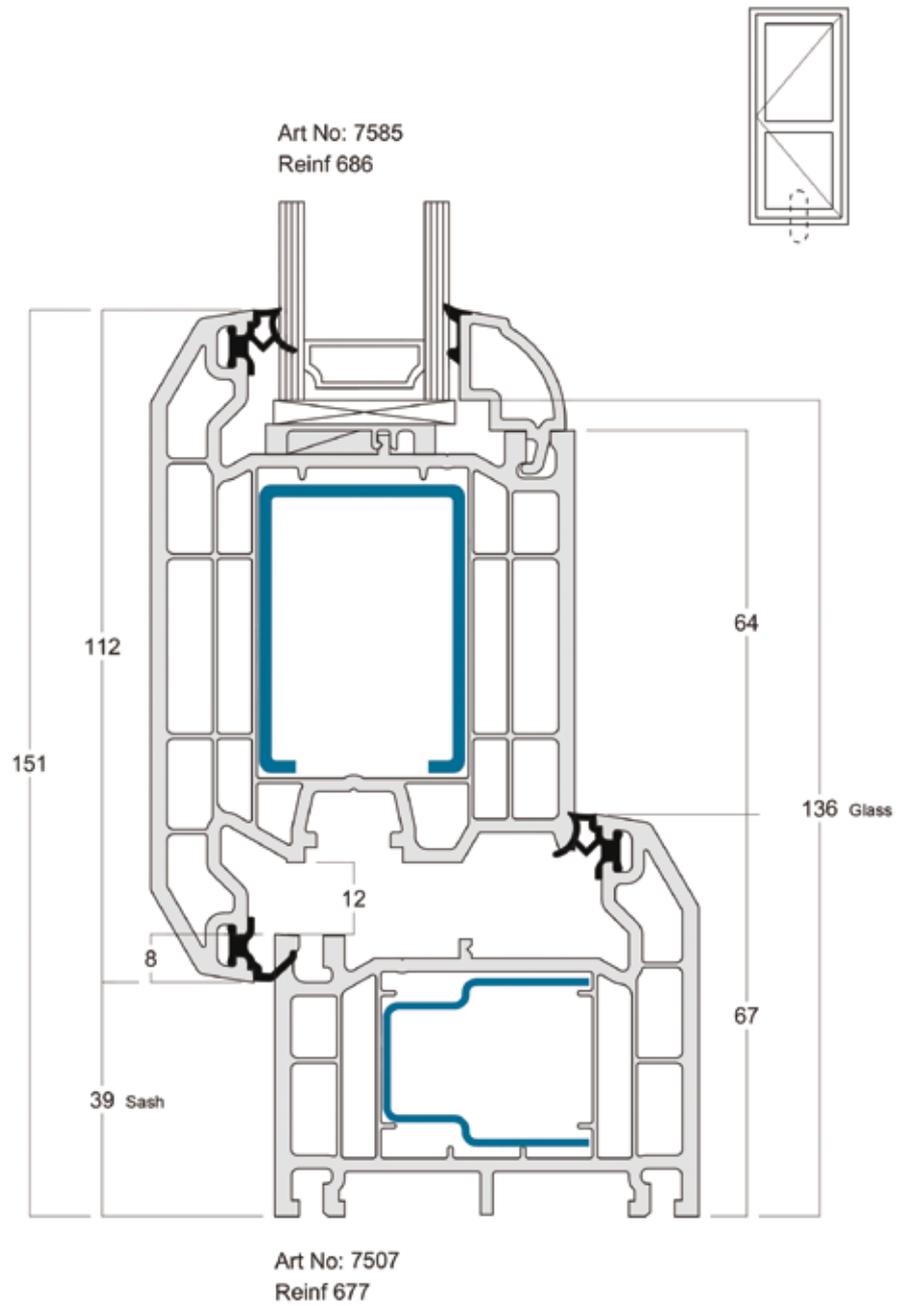


40mm triple glazed option will achieve 1.04 U-value.

Cross section at 1:1.25 scale

► C70 Gold® - Residential Door Cross Section

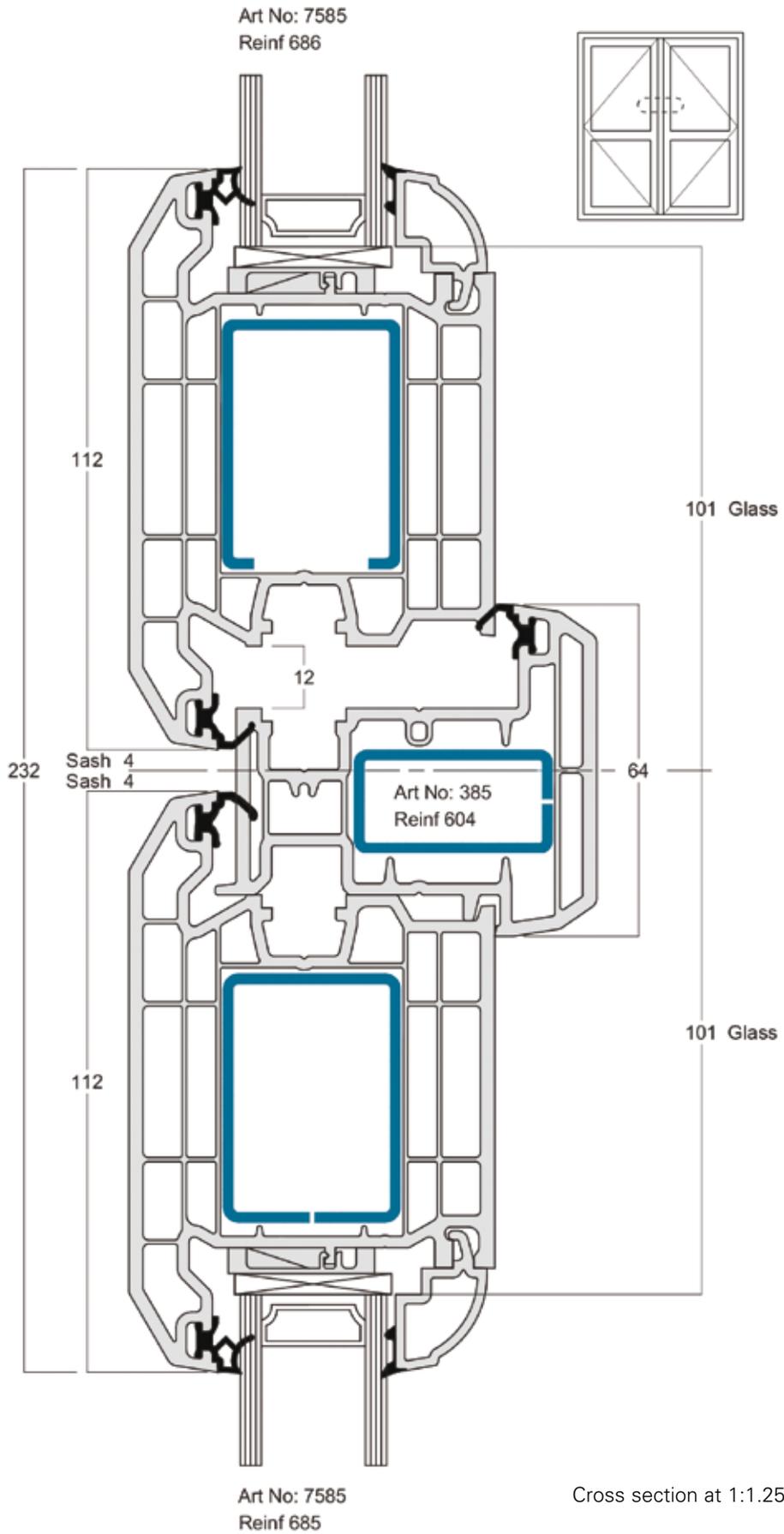
Can achieve
1.30
W/(m²K)
U_w



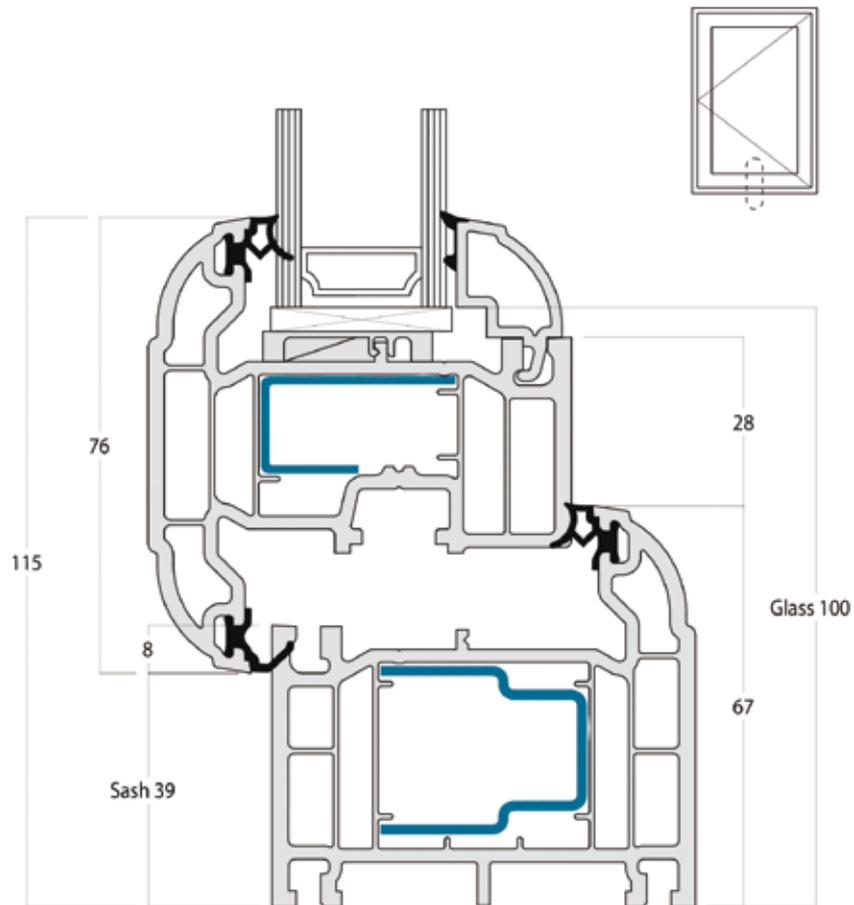
- Plastic
- Aluminium
- Recycled Plastic
- Rubber
- Steel
- Other

C70 Gold® - French Door Cross Section ◀

Can achieve
1.30
W/(m²K)
Uw



► 070 Gold® - Casement Cross Section

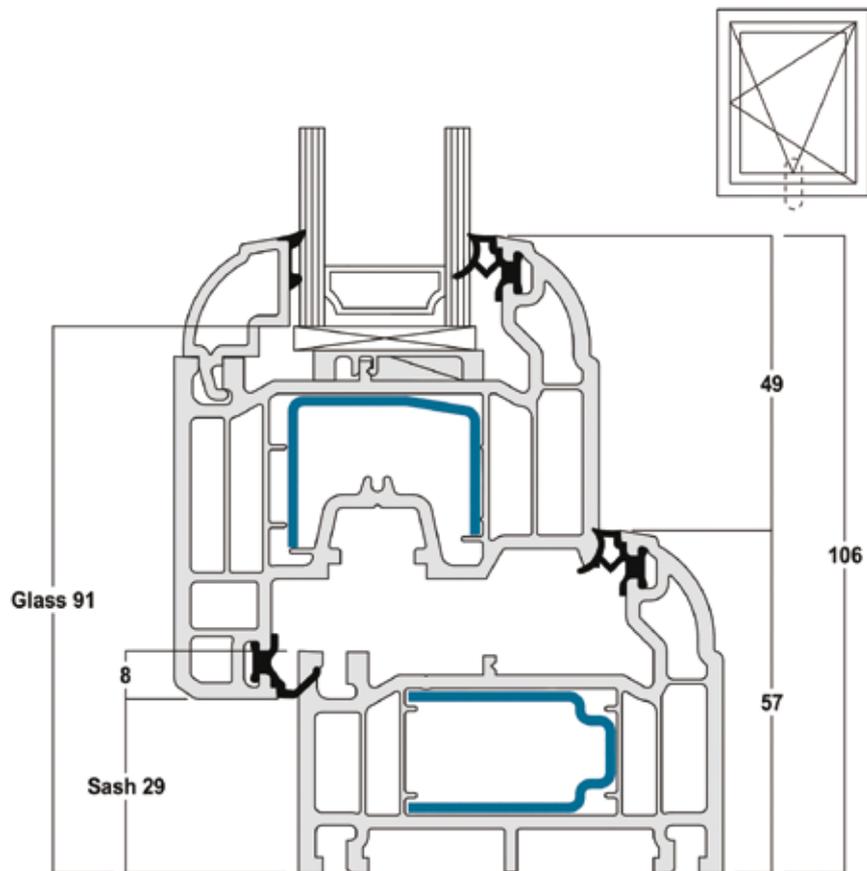


40mm triple glazed option will achieve 1.00 U-value.

● Plastic ● Aluminium ● Recycled Plastic ● Rubber ● Steel ● Other

070 Gold® - Tilt and Turn Cross Section ◀

Can achieve
1.37
W/(m²K)
U_w

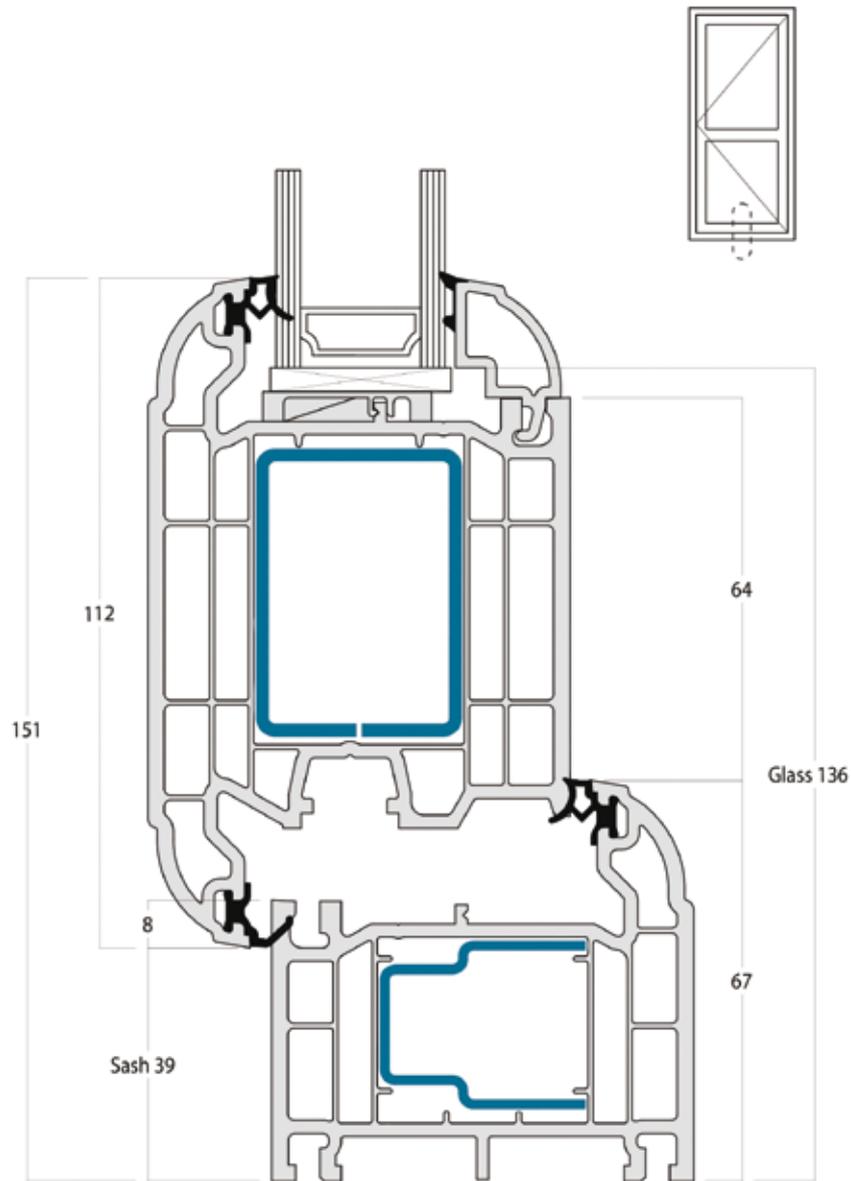


40mm triple glazed option will achieve 1.10 U-value.

Cross section at 1:1.25 scale

► 070 Gold® - Residential Door Cross Section

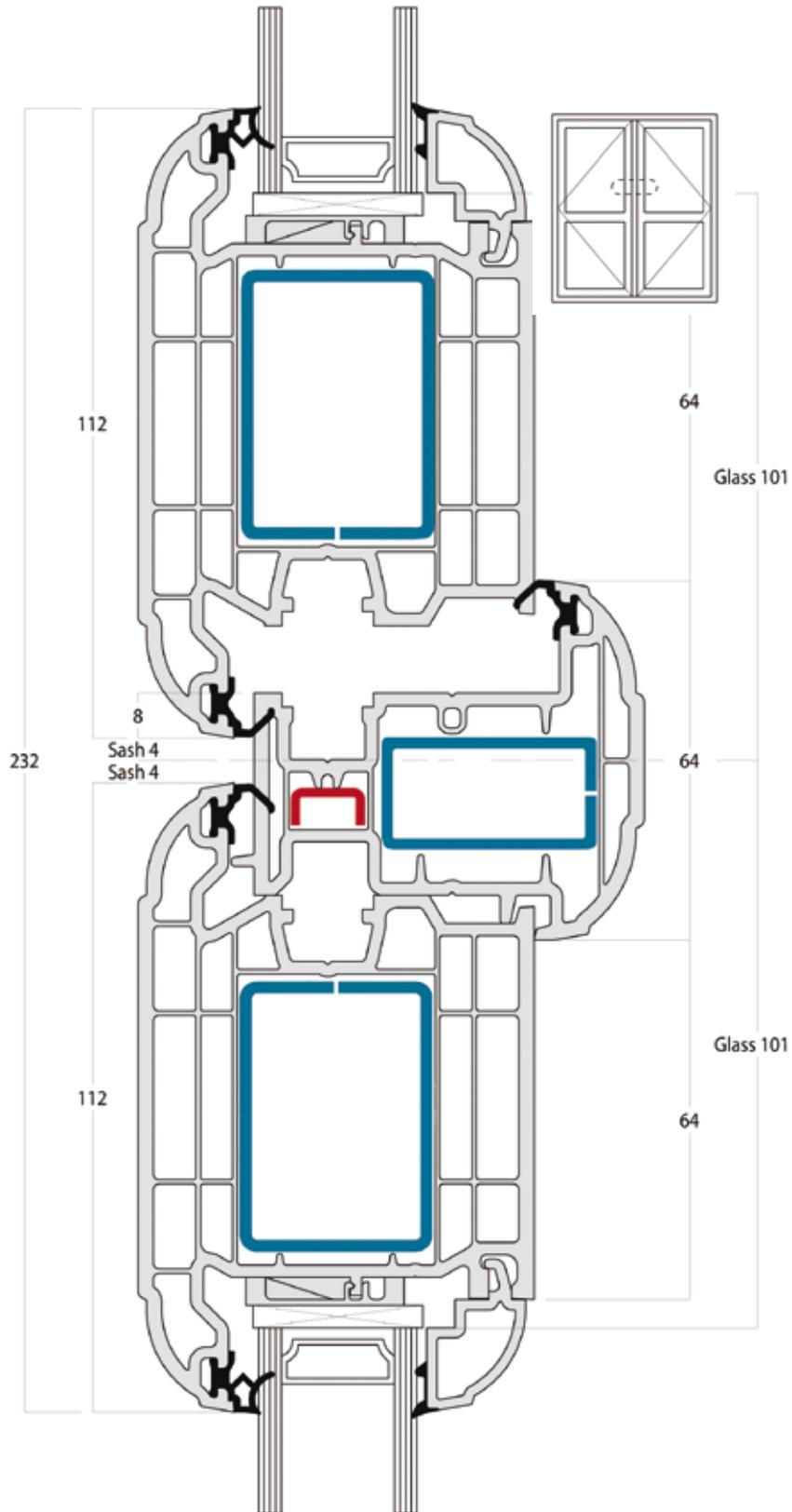
Can achieve
1.30
W/(m²K)
U_w



● Plastic ● Aluminium ● Recycled Plastic ● Rubber ● Steel ● Other

O70 Gold® - French Door Cross Section ◀

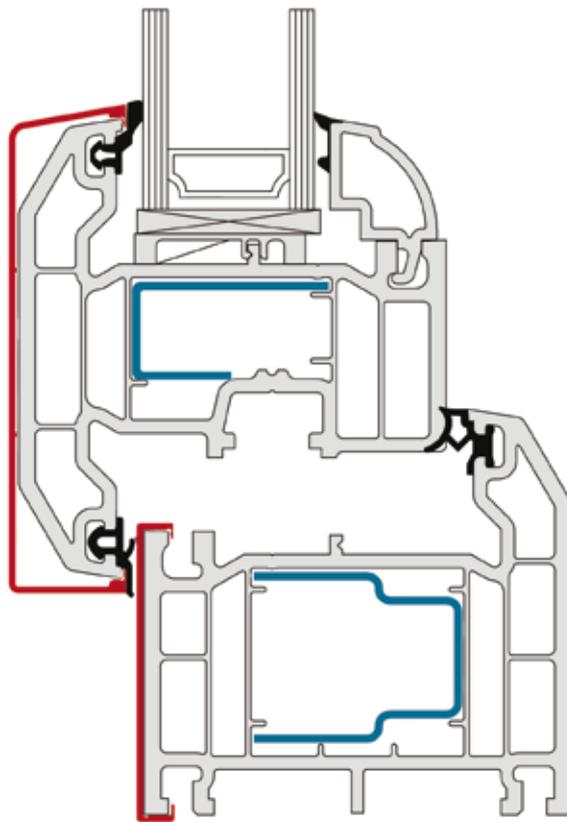
Can achieve
1.30
W/(m²K)
Uw



Cross section at 1:1.25 scale

► C70 Gold® - AluStar Cross Section

Can achieve
1.40
W/(m²K)
U_w

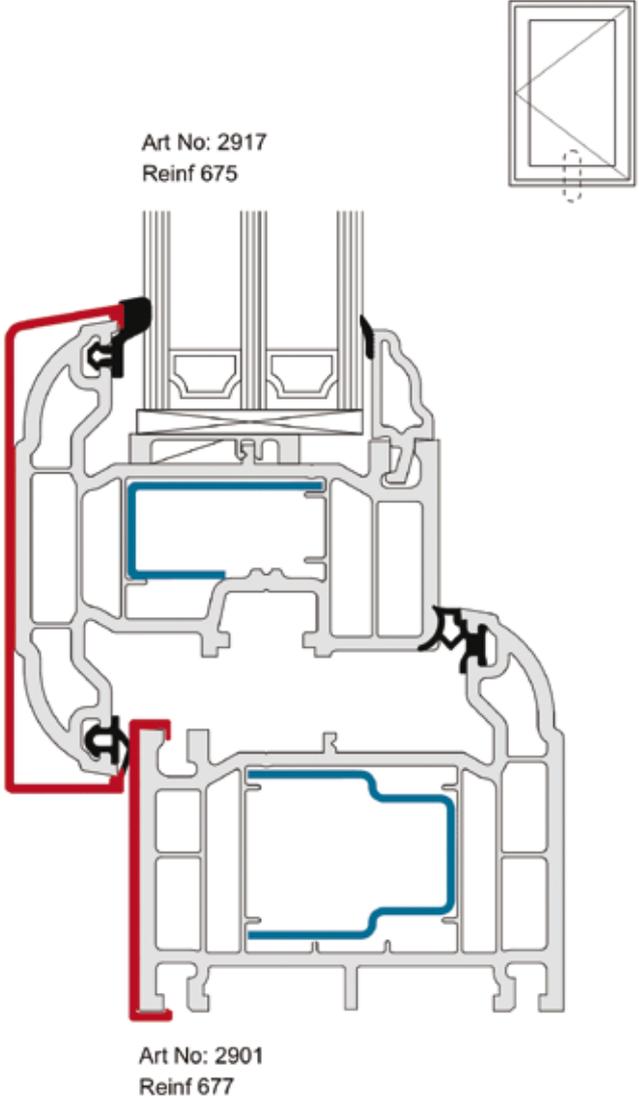


40mm triple glazed option will achieve 1.00 U-value.

● Plastic ● Aluminium ● Recycled Plastic ● Rubber ● Steel ● Other

O70 Gold® - AluStar Cross Section ◀

Can achieve
1.00
W/(m²K)
U_w



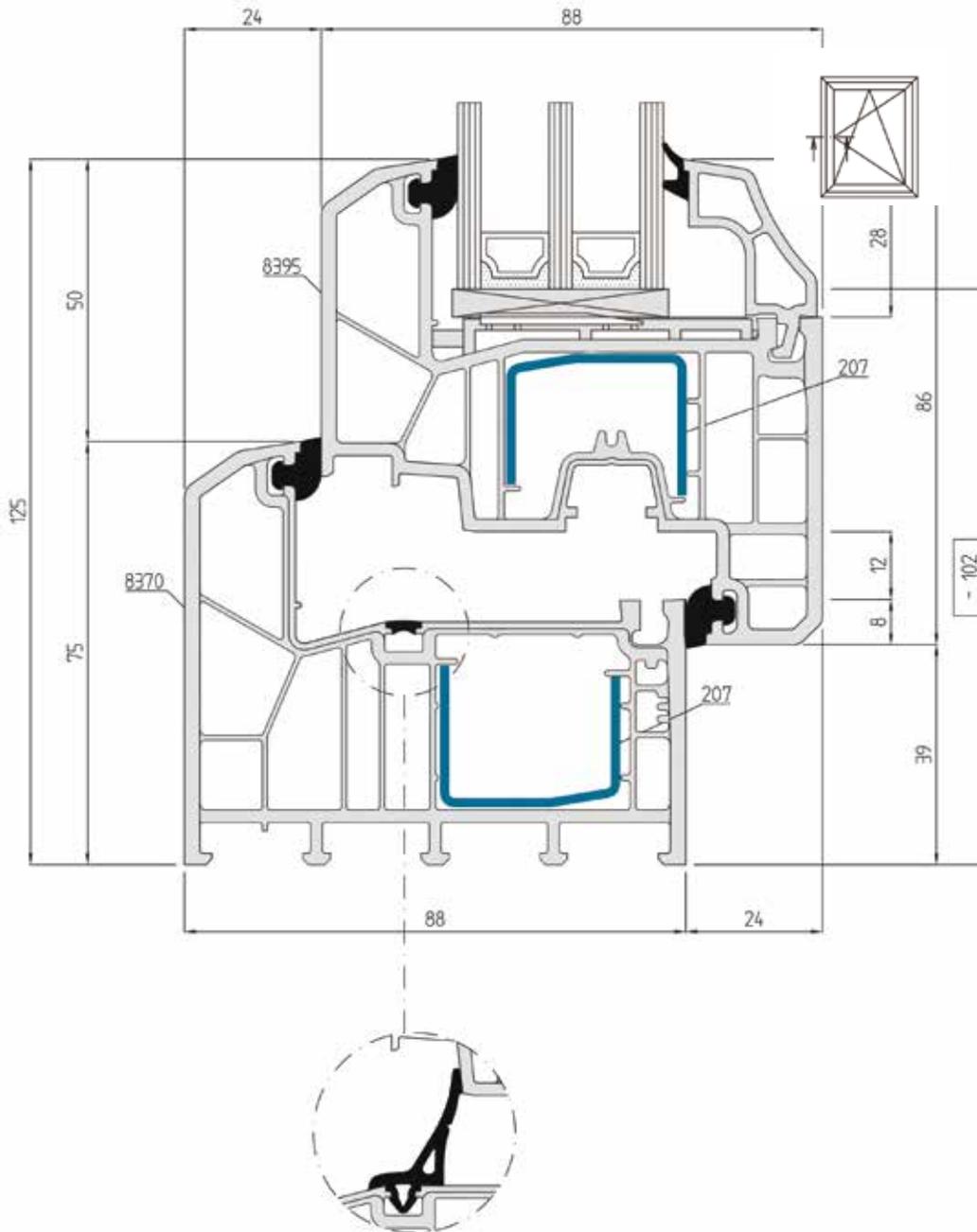
28mm double glazed option can achieve 1.40 U-value.

40mm triple glazed option will achieve x.xx U-value.

Cross section at 1:1.25 scale

► KBE System 88 Cross Section

Can achieve
1.10
W/(m²K)
U_w

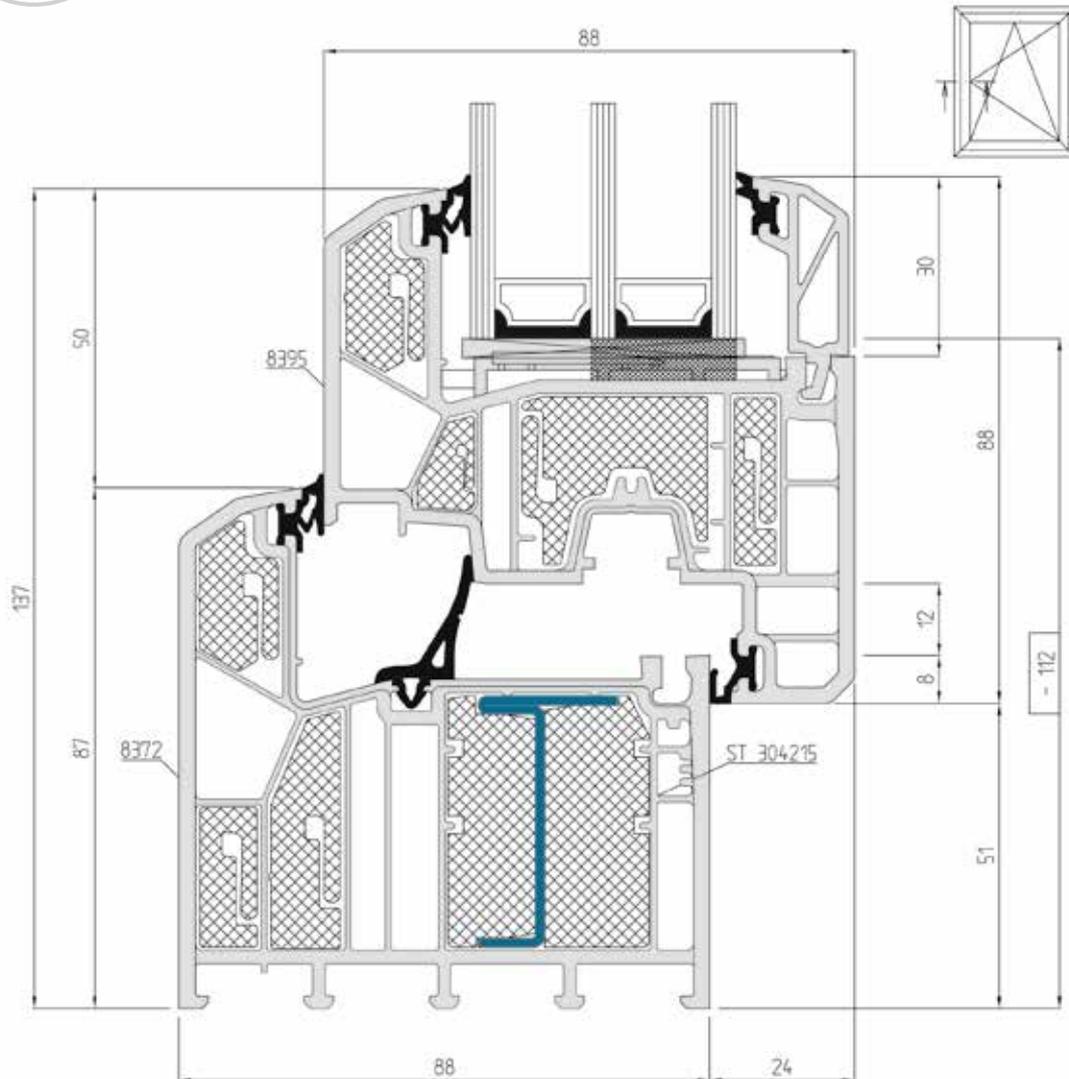


40mm triple glazed option will achieve 0.73 U-value.

● Plastic
 ● Aluminium
 ● Recycled Plastic
 ● Rubber
 ● Steel
 ● Other

KBE System 88 - Passivhaus Cross Section ◀

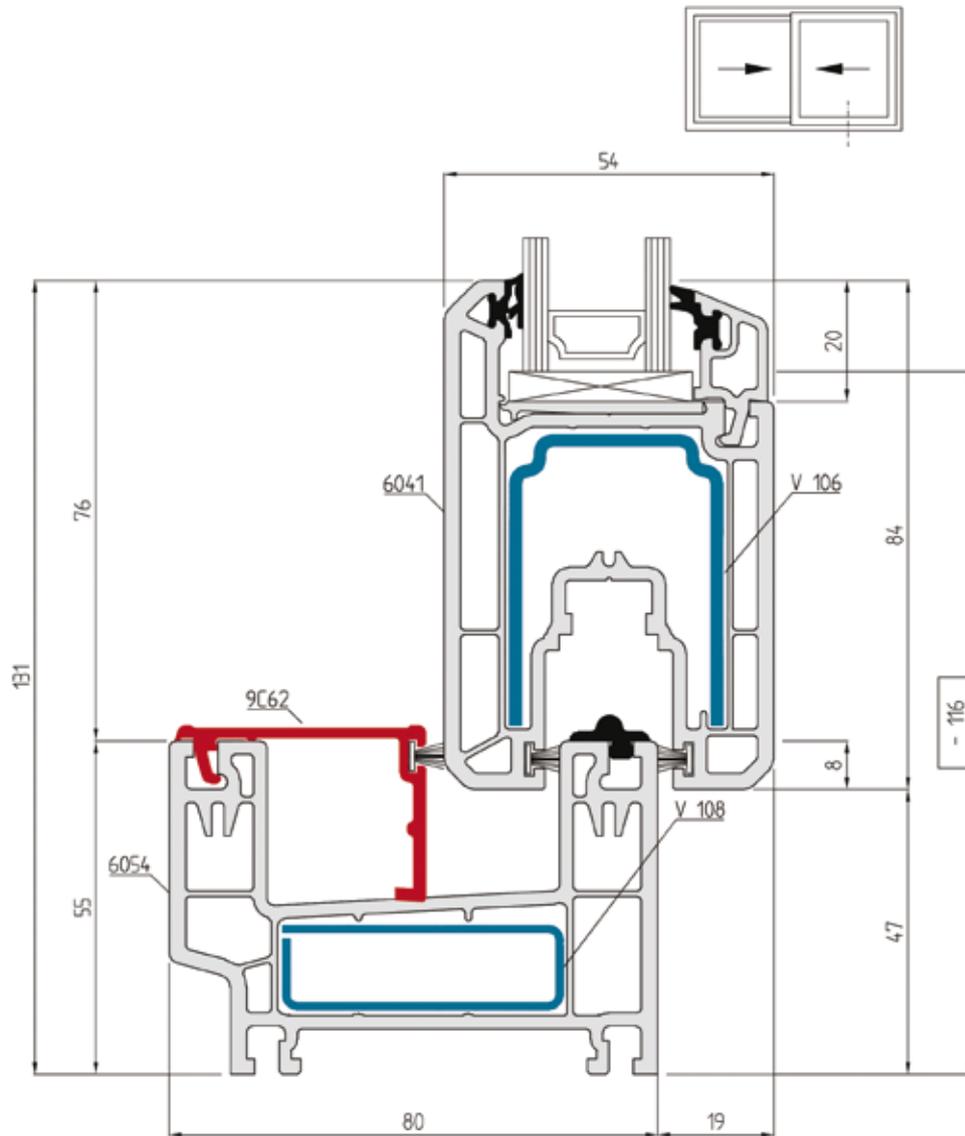
Can achieve
1.00
W/(m²K)
U_w



40mm triple glazed option will achieve 0.67 U-value.

Cross section at 1:1.25 scale

► Premiline - Patio Door Cross Section

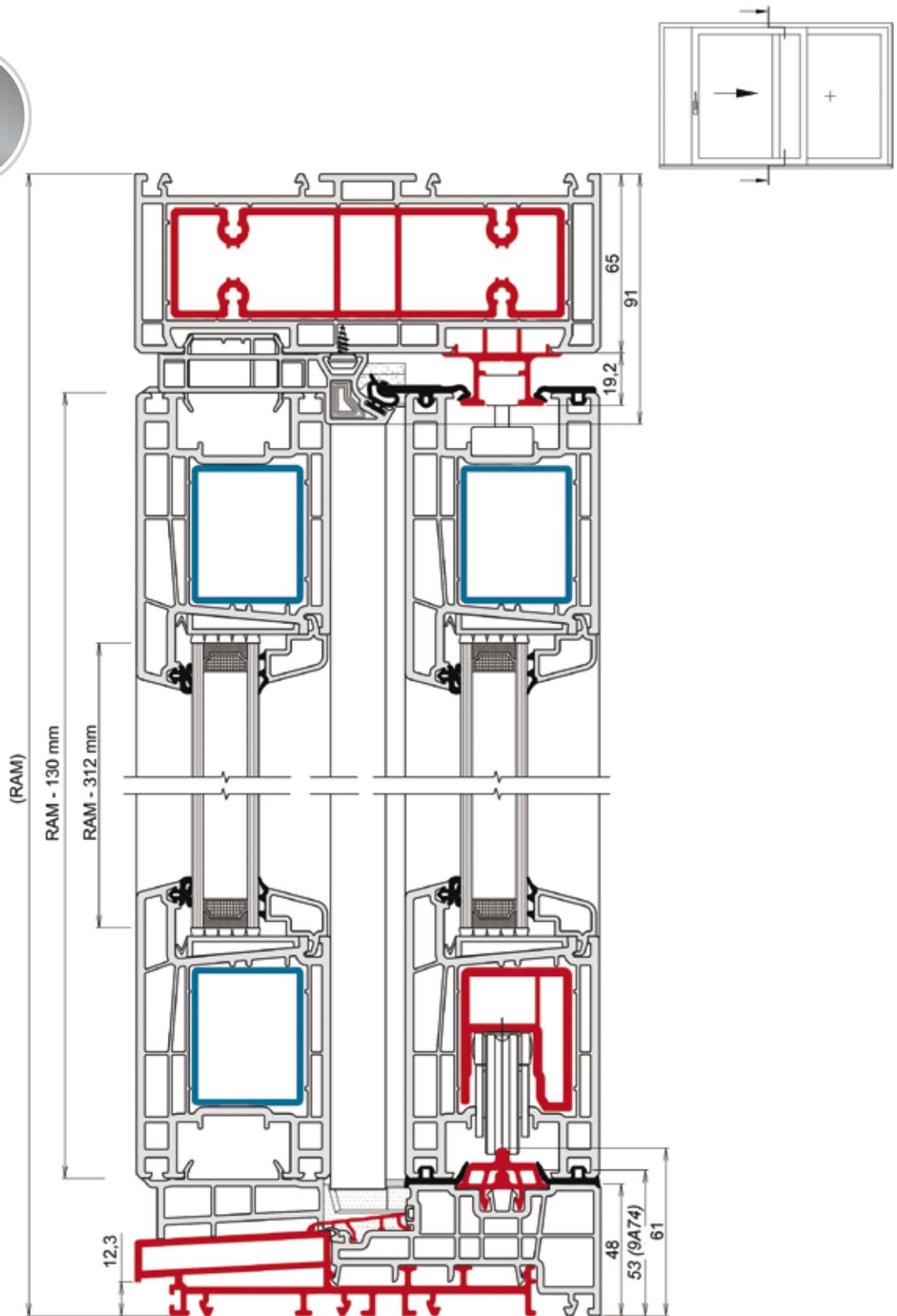


Cross section at 1:1.25 scale

- Plastic
- Aluminium
- Recycled Plastic
- Rubber
- Steel
- Other

PremiDoor - Lift and Slide Door Cross Section ◀

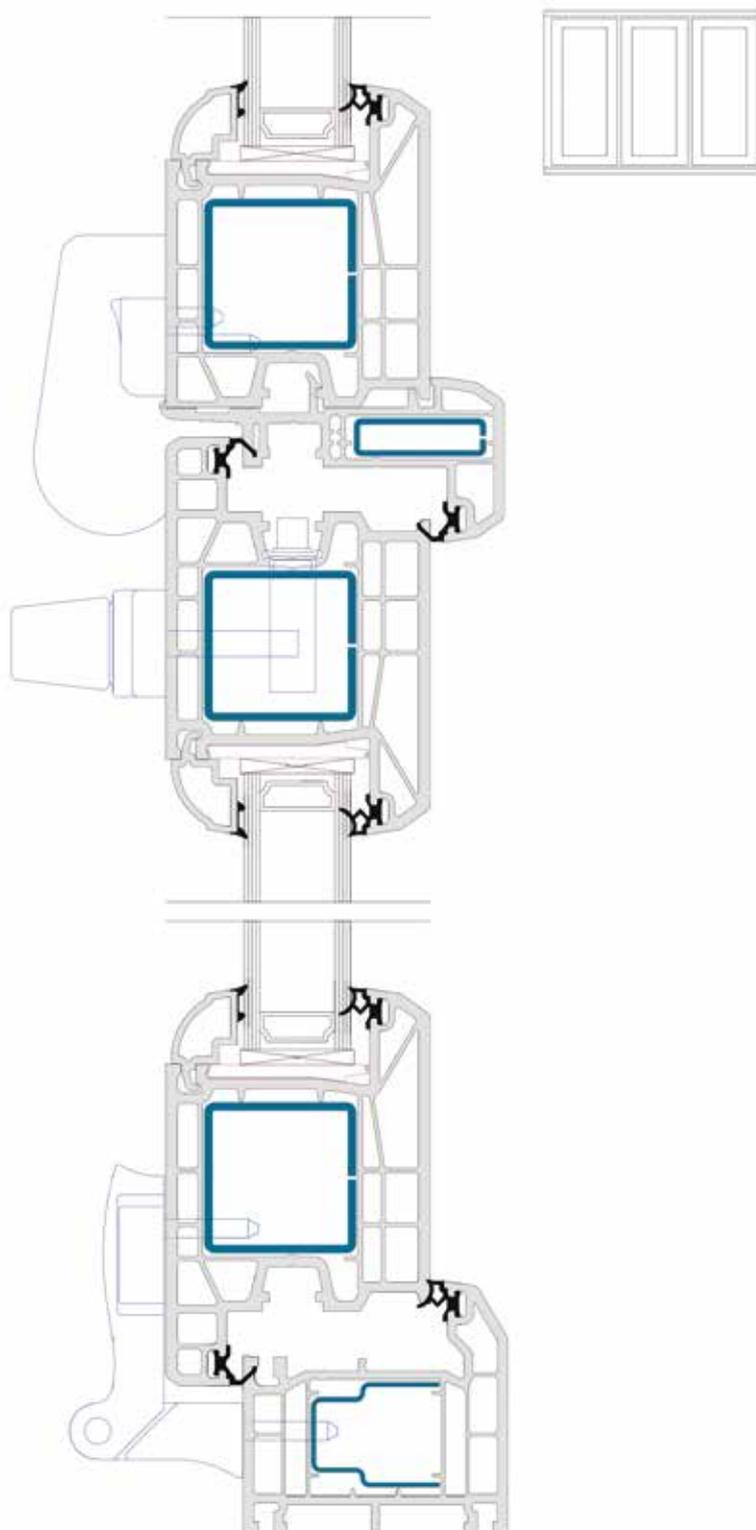
Can achieve
1.30
W/(m²K)
U_w



Cross section at 1:2.2 scale

► Bi-folding Door Cross Section

Can achieve
1.50
W/(m²K)
U_w



Cross section at 1:2 scale

● Plastic ● Aluminium ● Recycled Plastic ● Rubber ● Steel ● Other

Acoustic Window Specification ◀

Testing

Measurements of airborne sound insulation, Sound Reduction Index (R), were conducted in accordance with British BS EN ISO 10140 (ref 1). Single figure ratings of sound insulation performance, known as the Weighted Sound Reduction Index (R_w) and Spectrum Adaptation Terms (C and C_{tr}), are derived from these measurements in accordance with British Standard BS EN ISO 717 (ref 2).

AIRO is a UKAS accredited testing laboratory No. 0483 and measurements to the above British Standards are included on our schedule of accreditation. UKAS is the United Kingdom Accreditation Service.

Summary of Results

AIRO Test No.	Test Specimen	R_w (C;C _{tr}) dB
	Kommerling Window Unit with:	
L/3290/1	6.4/10/4/10/8.8 Triple Glazing	41 (-2;-4)
L/3290/2	4/12/4/12/8.8 Triple Glazing	42 (-1;-5)
L/3290/3	8.8/12/12.8 Double Glazing	42 (-1;-3)
L/3290/4	12/16/8.8 Double Glazing	41 (-1;-3)

Kommerling Window Unit with 6.4/10/4/10/8.8 Triple Glazing

The window unit was glazed with 39.2mm thick sealed triple glazed units comprising 6.4mm SGG Stadip laminated glass/10mm Swisspacer cavity/4mm float glass/10mm Swisspacer cavity/8.8mm SGG Stadip Silence laminated glass.

Kommerling Window Unit with 4/12/4/12/12.8 Triple Glazing

The window unit was glazed with 40.8mm thick sealed triple glazed units comprising 4mm float glass/12mm Swisspacer cavity/4mm float glass/12mm Swisspacer/12.8mm SGG Stadip Silence laminated glass. This cross section is shown on page 44.

Kommerling Window Unit with 8.8/12/12.8 Double Glazing

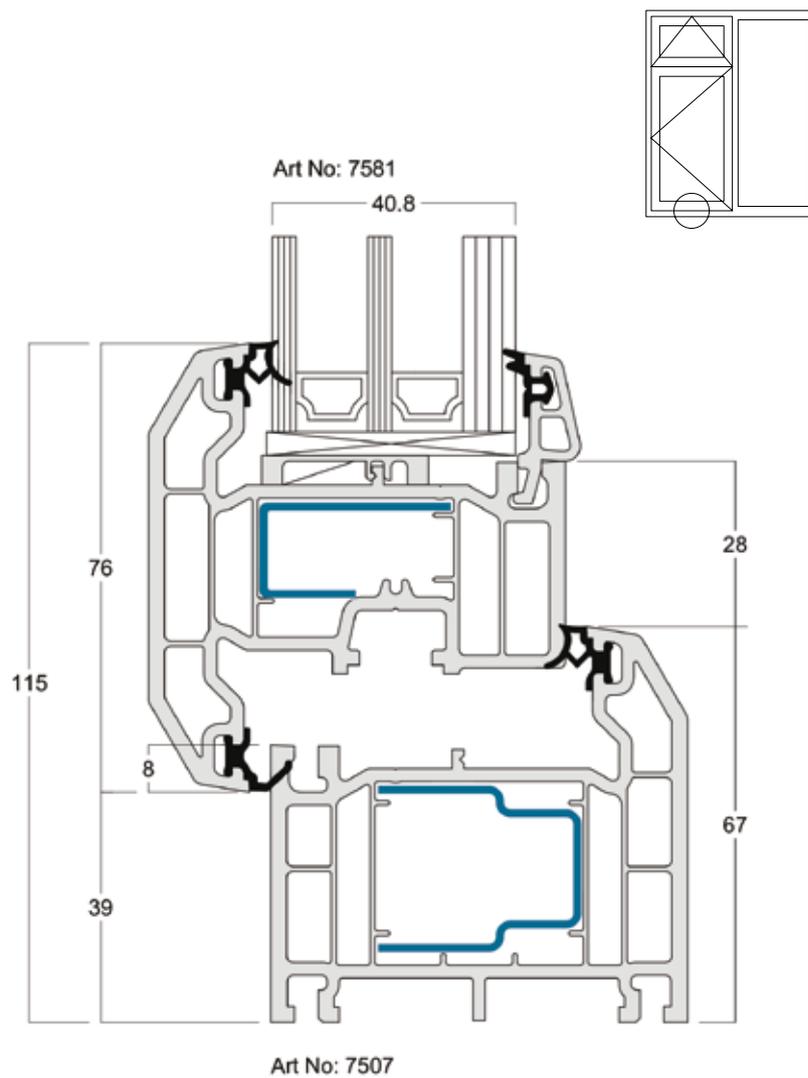
The window unit was glazed with 33.6mm thick sealed double glazed units comprising 8.8mm SGG Stadip Silence laminated glass/12mm Swisspacer cavity/12.8mm SGG Stadip Silence laminated glass.

Kommerling Window Unit with 12/16/8.8 Double Glazing

The window unit was glazed with 36.8mm thick sealed double glazed units comprising 12mm float glass/16mm Swisspacer cavity/8.8mm SGG Stadip Silence laminated glass. This cross section is shown on page 45.

► Accoustic Window Specification

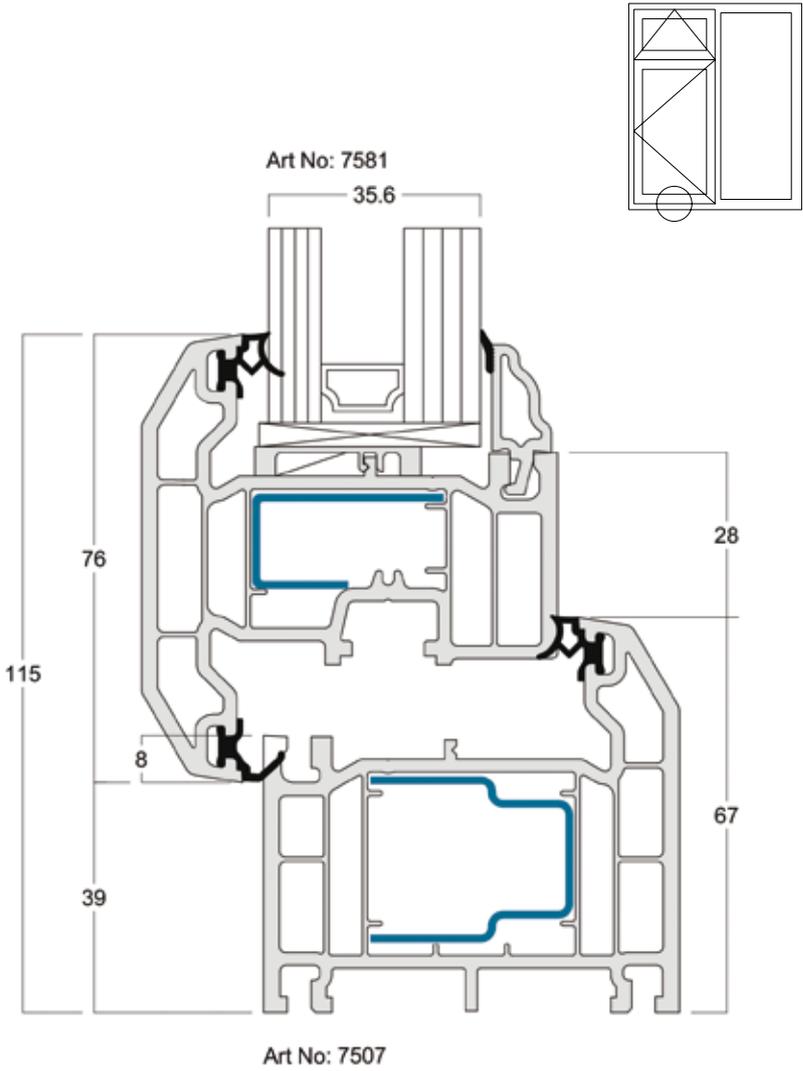
C70 Gold® Triple Glazed



- Plastic
- Aluminium
- Recycled Plastic
- Rubber
- Steel
- Other

Acoustic Window Specification ◀

C70 Gold® Double Glazed



Cross section at 1:1.25 scale

► Colour Options

Wood Finishes

Ex Stock*

Single lengths



Rosewood*
Renolit-Nr. 3.3202 001



Golden Oak*
Renolit-Nr. 3.2178 001



Cream White*
Renolit-Nr. 1.1379.05



Black Brown*
Renolit-Nr. 1.8518.05



Cherry Blossom
Renolit-Nr. 3.3214 008



Rustic Cherry
Renolit-Nr. 3.3214 007



Antique Oak
Renolit-Nr. 3.3211 006



Rustic Oak
Renolit-Nr. 3.3149 008



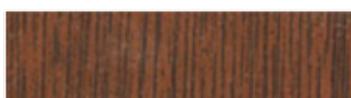
Bog Oak
Renolit-Nr. 3.3167 004



Sienna PR
Cova-Nr. PR49233



Mahogany
Renolit-Nr. 3.2065 021



Walnut
Renolit-Nr. 3.2178 007



Dark Oak FT-F1
Renolit-Nr. 3.2052 089



Streaked Douglas
Renolit-Nr. 3.3152 009



Mountain Pine
Renolit-Nr. 3.3069 041



Oregon Pine
Renolit-Nr. 3.1192 001



Macore
Renolit-Nr. 3.3162 002



Sierra
Renolit-Nr. 3.2167 009



Light Oak
Renolit-Nr. 3.2052 090



Dark Oak
Renolit-Nr. 3.2140 005



Dark Oak ST
Renolit-Nr. 3.2140 006

Plain Colours

Smooth



Achat Grey
Renolit-Nr. 1.7038.83



Signal Grey
Renolit-Nr. 1.7004.83



Slate Grey
Renolit-Nr. 1.7015.83



Anthracite Grey
Renolit-Nr. 1.7016.83

Grained



White
Renolit-Nr. 1.9152.05



Achat Grey
Renolit-Nr. 1.7038.05



Grey
Renolit-Nr. 1.7155.05



Cement Grey
Renolit-Nr. 1.7023.05



Basalt Grey
Renolit-Nr. 1.7012.05



Quarz Grey
Renolit-Nr. 1.7039.05



Anthracite Grey
Renolit-Nr. 1.7016.05



Brown Maroon
Renolit-Nr. 1.8099.05



Chocolate Brown
Renolit-Nr. 1.8875.05



Moss Green
Renolit-Nr. 1.6005.05



Dark Green
Renolit-Nr. 1.6125.05



Light Red
Renolit-Nr. 1.3054.05



Wine Red
Renolit-Nr. 1.3005.05



Dark Red
Renolit-Nr. 1.3081.05



Brilliant Blue
Renolit-Nr. 1.5007.05



Cobalt Blue
Renolit-Nr. 1.5013.05



Steel Blue
Renolit-Nr. 1.5150.05



Yellow
Renolit-Nr. 1.1087.05



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