



profine UK Limited
Lancaster Road, Fradley Park,
Lichfield, Staffordshire,
WS13 8RY.
Tel: 01543 444900
Fax: 01543 444990
Mobile: 07785 525627
enquiries@profine-group.com
www.kommerling.co.uk
E-mail: kevin.warner@profine-group.com

Specifiers Guide





**Kömmerling
your Profile Partners**

3.800 employees worldwide

Turnover in excess of €360 million

26 locations in 21 countries

Production: In excess of 450,000 tonnes of PVCu profile per year

Window Systems

Specific PVCu window and door systems for the individual requirements of local markets. Each system consists of a large number of profiles, compatible with each other, which are the result of years of research and intensive product development.

Door Systems

Advanced profiles offer an elaborate systems technology with high quality and security standard, not only for entrance doors, but also for folding and sliding doors.

GlassWin system - The architecture of tomorrow

An innovative structural glazing system, designed by **profine** after intensive development, is the GlassWin system. Similar to the processes in vehicle construction, the glass elements and

PVCu profiles are bonded with a special silicone adhesive which provides the elements with a considerably higher degree of structural strength. Structural glazing opens greater flexibility and design options. Thus glass units with extremely narrow window profiles can be used for visual design within the building. In addition, the new technology offers even better thermal insulation

PVCu Sheets

PVCu sheets for numerous different applications

Shutter Systems

French shutters and roller shutter slats, in various designs and colours, constitute an extensive range of products which is completed by a modular roller shutter box with integrated insect screen.

Structure Systems

Fence systems, balcony railings and cladding systems used for curtain walls constitute a separate range of products.

CONTENTS

- 3 History
- 4 Materials
- 5 Accreditations
- 6 Performance Data historical
- 7 Design and Specification Service
- 8 Vinyl 2012 Greenline
- 9 Recycling
- The Kömmerling Window & Door range**
- 10 Profile Chart 70mm Connoisseur (Ovolo System)
- 11 Profile Chart 70mm Gold (Chamfered System)
- 12 Casement Window 70mm Connoisseur (Ovolo System)
- 13 Casement Window 70mm Gold (Chamfered System)
- 14 Tilt & Turn 70mm Connoisseur (Ovolo System)
- 15 Tilt & Turn 70mm Gold (Chamfered System)
- 16 Door 70mm Connoisseur (Ovolo System)
- 17 Door 70mm Gold (Chamfered System)
- 18 French Door 70mm Connoisseur (Ovolo System)
- 19 French Door 70mm Gold (Chamfered System)
- 20 Low Threshold 70mm Connoisseur (Ovolo System)
- 21 Low Threshold 70mm Gold (Chamfered System)
- 22 Patio Door - PremiLine
- 23 Vertical Slider
- 24 Specialised Products. GlassWin. Aluclad
- 25 Energy Ratings
- 26 Thermal Information
- 27 Design Information
- 28 Ancilliary Profiles
- 30 Colour Range



Material Properties

Kömmerling PVCu window and door profiles are made from lead free extrusion compound conforming to BS EN 12608:2003.

Properties	Values	Unit	References
Vicat softening point	≥ 75	°C	EN ISO 306/B EN 12608
Tensile impact strength	≥ 600	kJ / m2	EN ISO 8256 EN 12608
Charpy impact strength	≥ 20	kJ / m2	ISO 179-2 EN 12608
Flexural modulus of elasticity	≥ 2200	N / mm2	EN ISO 178 EN 12608
Colour fastness	ΔE ≤ 5	-	EN 513 EN 12608
Impact strength after artificial weathering	Reduction ≤ 40	%	EN 513 EN 12608
Fire behaviour	B2	-	DIN 4102
Mean stress at maximum load of compression bending (Weldability)	Average ≥ 35	N / mm2	EN 514 EN 12608



BS EN ISO 9001
Certificate No: FM1146



BS EN ISO 9001/9002
Certificate Nos: EN29001/002



Kitemark Licence No. KM 56545 to PAS 23-1
Kitemark Licence No. KM 56546 to PAS 24-1
Kitemark Licence No. KM 27878 to BS 7413



Kitemark Licence No. KM 13356 to BS 7413
Kitemark Licence No. KM 51959 to BS 7413/7950
Kitemark Licence No. KM 56435 to BS 7950/7413



British Board of Agrément Agreement
Report No. 1451



British Board of Agrément Agreement
Woodgrain. Foiled. UPVC. Profiles.
Report No. 1712



British Board of Agrément Agreement
Report No. 1451?????????



British Board of Agrément Agreement
Report No. 1451?????????

Accreditations

Kömmerling extruded profiles undergo stringent quality control procedures, rigorous testing and independent auditing to ensure that they always meet the highest criteria, including all of the most relevant standards in European countries.



Si meliora dies, ut vina, poemata reddit, scire velim, chartis pretium quotus arroget annus. scriptor abhinc annos centum qui decidit, inter perfectos veteresque referri debet an inter vilis atque novos. Excludat iurgia finis, Est vetus atque probus, centum qui perficit annos. Quid, qui deperiit minor uno mense vel anno, inter quos referendus erit. Veteresne poetas, an quos et praesens et postera respuat aetas.

Iste quidem veteres inter ponetur honeste, qui vel mense brevi vel toto est iunior anno. Utor permissio, caudaeque pilos ut equinae paulatim vello unum, demo etiam unum, dum cadat elusus ratione ruentis acervi, qui redit in fastos et virtutem aestimat annis miraturque nihil nisi quod Libitina sacravit.

Ennius et sapines et fortis et alter Homerus, ut critici dicunt, leviter curare videtur, quo promissa cadant et somnia Pythagorea. Naevius in manibus non est et mentibus haeret paene recens. Adeo sanctum est vetus omne poema. ambigitur quotiens, uter utro sit prior, aufert Pacuvius docti famam senis Accius alti, dicitur Afrani toga convenisse Menandro, Plautus ad exemplar Siculi properare Epicharmi, vincere Caecilius gravitate, Terentius arte.

Hos ediscit et hos arto stipata theatro spectat Roma



Si meliora dies, ut vina, poemata reddit, scire velim, chartis pretium quotus arroget annus. scriptor abhinc annos centum qui decidit, inter perfectos veteresque referri debet an inter vilis atque novos. Excludat iurgia finis, Est vetus atque probus, centum qui perficit annos. Quid, qui deperiit minor uno mense vel anno, inter quos referendus erit. Veteresne poetas, an quos et praesens et postera respuat aetas.

Iste quidem veteres inter ponetur honeste, qui vel mense brevi vel toto est iunior anno. Utor permissio, caudaeque pilos ut equinae paulatim vello unum, demo etiam unum, dum cadat elusus ratione ruentis acervi, qui redit in fastos et virtutem aestimat annis miraturque nihil nisi quod Libitina sacravit.

Ennius et sapines et fortis et alter Homerus, ut critici dicunt, leviter curare videtur, quo promissa cadant et somnia Pythagorea. Naevius in manibus non est et mentibus haeret paene recens. Adeo sanctum est vetus omne poema. ambigitur quotiens, uter utro sit prior, aufert Pacuvius docti famam senis Accius alti, dicitur Afrani toga convenisse Menandro, Plautus ad exemplar Siculi properare Epicharmi, vincere Caecilius gravitate, Terentius arte.

Hos ediscit et hos arto stipata theatro spectat Roma potens; habet hos numeratque poetas ad nostrum tempus Livi scriptoris ab aevo.

Interdum volgus rectum videt, est ubi peccat. Si veteres ita miratur laudatque poetas, ut nihil anteferat, nihil illis comparet, errat. Si quaedam nimis antique, si peraque dure dicere credit eos, ignave multa fatetur, et sapit et mecum facit et lova iudicat aequo.

Non equidem insector delendave carmina Livi esse reor, memini quae plagosum mihi parvo Orbilium

Designer Specification Service

Si meliora dies, ut vina, poemata reddit, scire velim, chartis pretium quotus arroget annus. scriptor abhinc annos centum qui decidit, inter perfectos veteresque referri debet an inter vilis atque novos. Excludat iurgia finis, Est vetus atque probus, centum qui perficit annos. Quid, qui deperiit minor uno mense vel anno, inter quos referendus erit. Veteresne poetas, an quos et praesens et postera respuat aetas.

Iste quidem veteres inter ponetur honeste, qui vel mense brevi vel toto est iunior anno. Utor permissio, caudaeque pilos ut equinae paulatim vello unum, demo etiam unum, dum cadat elusus ratione ruentis acervi, qui redit in fastos et virtutem aestimat annis





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 PVCu 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 PVCu industry made a voluntary commitment to the EU Environment Commission to eliminate the use of lead stabilisers from PVCu profiles by 2010. This was welcomed as the "Vinyl 2010" initiative and Kömmerling undertook this change in 2000, making



the move to calcium-zinc, 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 seek to collect fabricator off cuts and recycle this material and old pvc window systems 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 (PVCu, 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 PVCu profiles.



recycline

Drawing a line under PVCu waste

Recycline, an initiative to reduce PVCu waste by 100%, provides a complete service for 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.

The PVCu industry Vinyl 2010 initiative actively encourages those in the trade 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, PVCu is widely recognised as one of the best and most fit-for-purpose materials for windows and doors. Durable for 50 years or more PVCu 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

Step 1:
Partners of the Recycline initiative dispose of all off-cuts and other profile waste produced in allocated cages, which are located onsite.

Step 2:
Once the cages are full with profile waste, they are collected and emptied by **recycline** lorries.

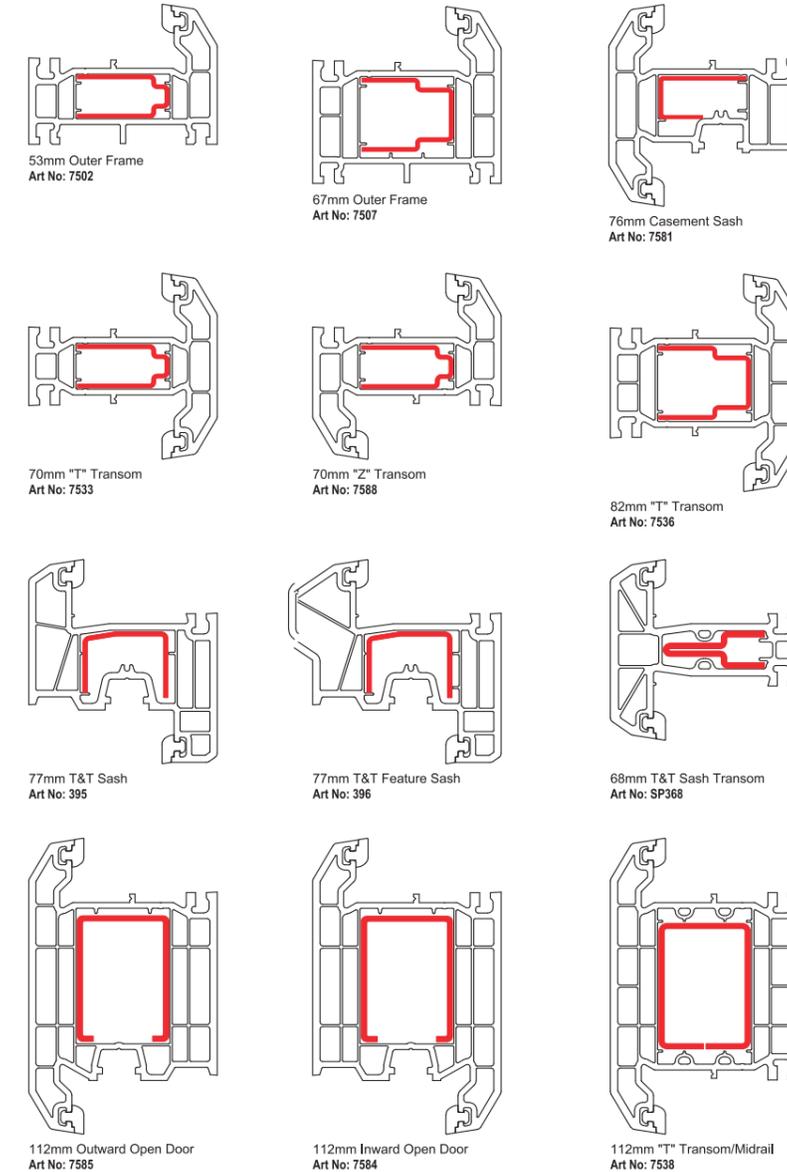
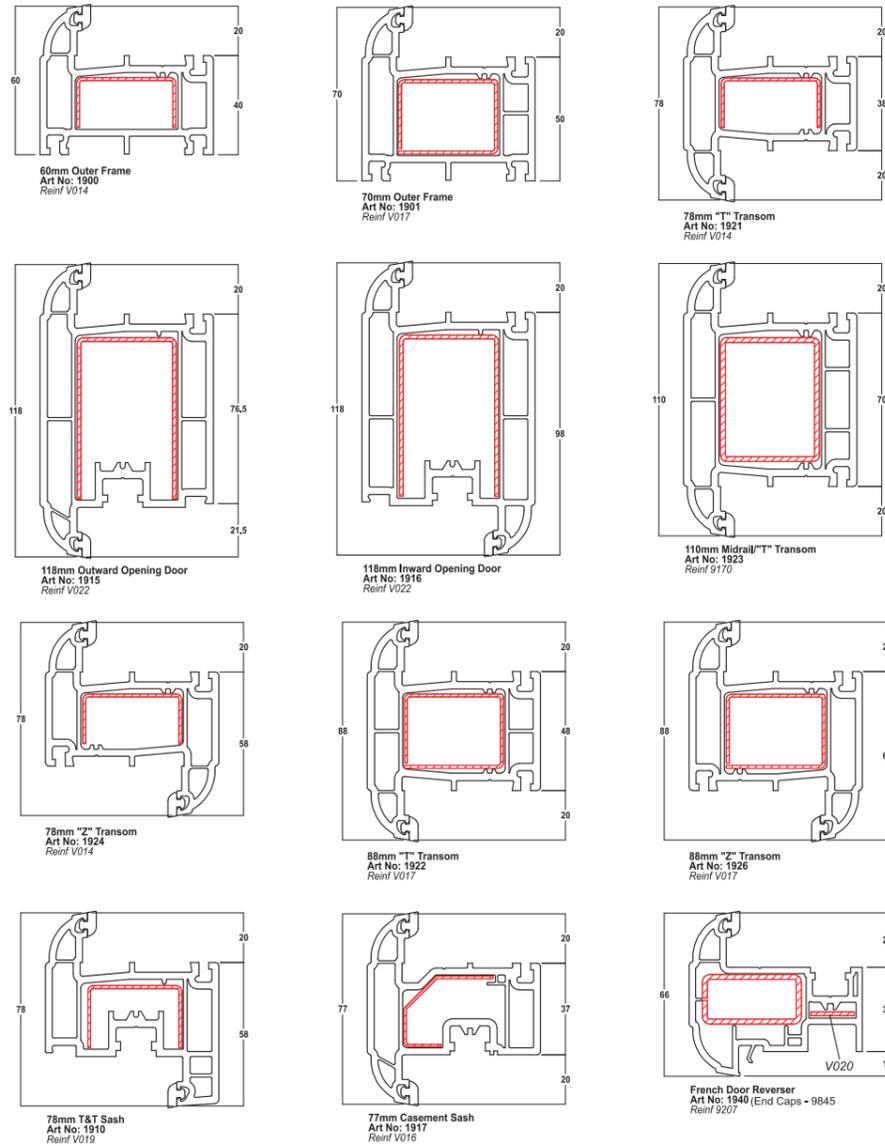
Step 3:
recycline lorries then transport the waste to where both the PVCu and gaskets are ground into granules.

Step 4:
The granules are then put through a special sorting machine which separates the PVCu granules from the rubber gaskets and other foreign bodies

Step 5:
PVCu granules are then reprocessed into PVCu.



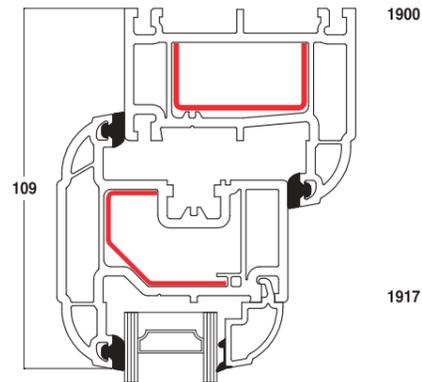
70mm Ovolo System



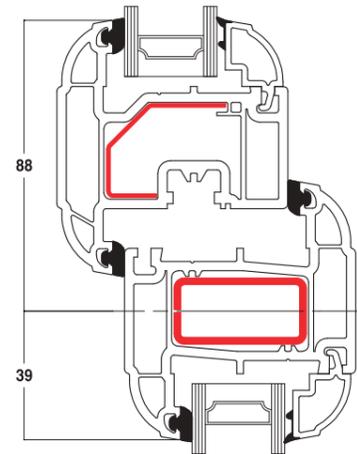
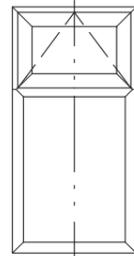
70mm Chamfered System



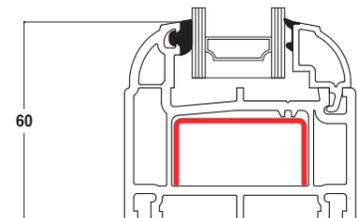
**Casement Window
70mm Ovolo**



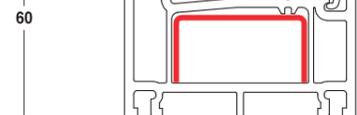
1900



1917



1924



1900

Features

Styles

Utilitas cathedras miscere fiducias, quod matri moni divinus imputat fiducias, semper satis

Frames

Utilitas cathedras miscere fiducias, quod matri moni divinus imputat fiducias, semper satis adlaudabilis quadrupei

Fabrication

Syrte tilitas cathedras miscere fiducias, quod matrimon

Reinforcing

semper satis adlaudabilis quadrupei circum gre diet zothecas.

Glazing

fiducias, semper satis adlaudabilis quadrupei circum grediet zothecas. Syrte tilitas cathedras miscere

Seals & Gaskets

uod matri moni divinus imputat fiducias, semper

Hardware

fiducias, quod matrimoni divinus imputat fiducias

Ancillaries

fiducias, semper satis adlaudabilis quadrupei circum grediet zothecas.

Ventilation

fiducias, quod matrimoni divinus imputat fiducias

Fixing

Utilitas cathedras miscere fiducias, quod matri moni divinus imputat fiducias, semper satis adlaudabilis quadrupei

Security

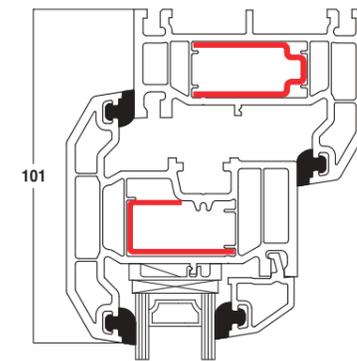
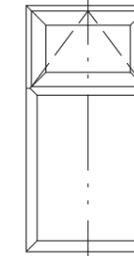
fiducias, semper satis adlaudabilis quadrupei circum grediet zothecas.

Accreditation

fiducias, quod matrimoni divinus imputat fiducias

Environment

uod matri moni divinus imputat fiducias, semper



7502

Features

Styles

Utilitas cathedras miscere fiducias, quod matri moni divinus imputat fiducias, semper satis

Frames

Utilitas cathedras miscere fiducias, quod matri moni divinus imputat fiducias, semper satis adlaudabilis quadrupei

Fabrication

Syrte tilitas cathedras miscere fiducias, quod matrimon

Reinforcing

semper satis adlaudabilis quadrupei circum gre diet zothecas.

Glazing

fiducias, semper satis adlaudabilis quadrupei circum grediet zothecas. Syrte tilitas cathedras miscere

Seals & Gaskets

uod matri moni divinus imputat fiducias, semper

Hardware

fiducias, quod matrimoni divinus imputat fiducias

Ancillaries

fiducias, semper satis adlaudabilis quadrupei circum grediet zothecas.

Ventilation

fiducias, quod matrimoni divinus imputat fiducias

Fixing

Utilitas cathedras miscere fiducias, quod matri moni divinus imputat fiducias, semper satis adlaudabilis quadrupei

Security

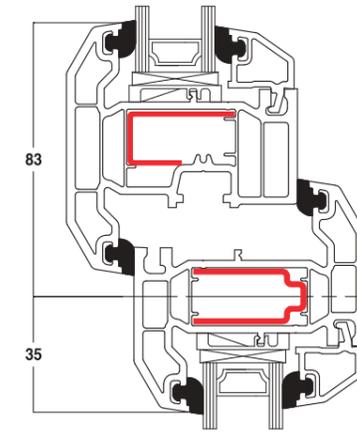
fiducias, semper satis adlaudabilis quadrupei circum grediet zothecas.

Accreditation

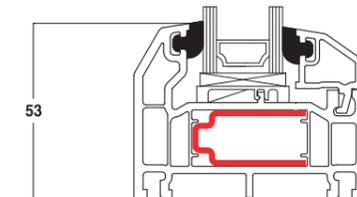
fiducias, quod matrimoni divinus imputat fiducias

Environment

uod matri moni divinus imputat fiducias, semper



7581



7588



7502

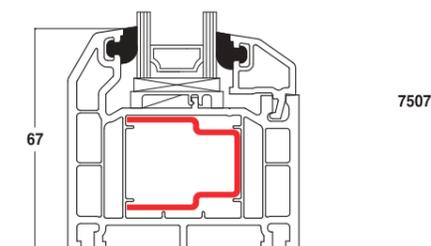
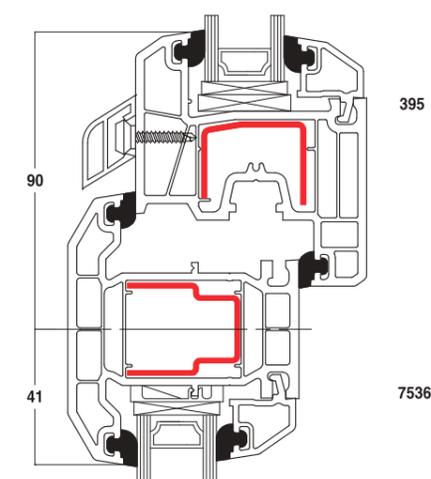
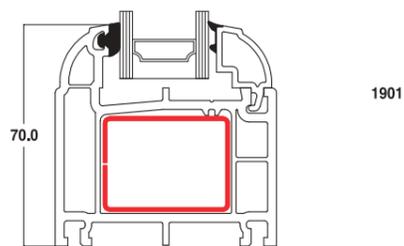
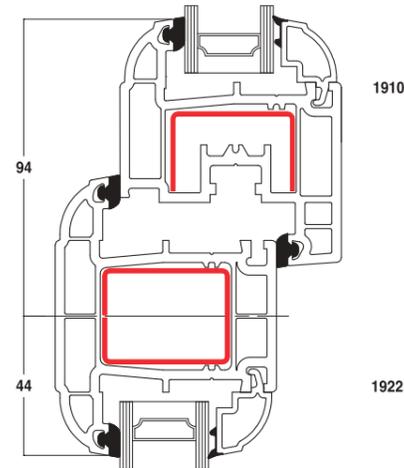
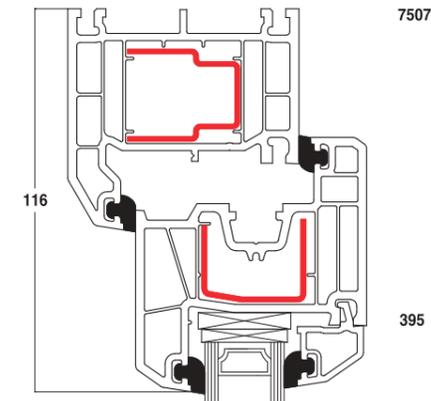
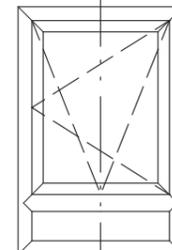
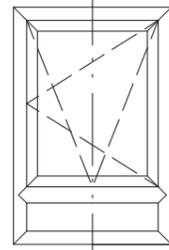
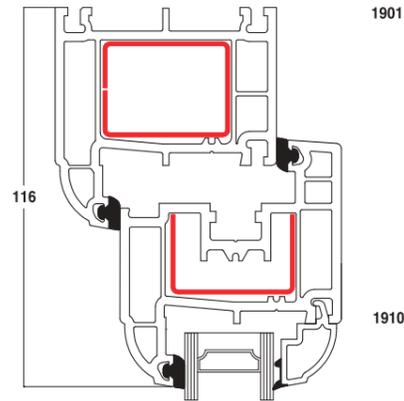


**Casement Window
70mm Chamfered**





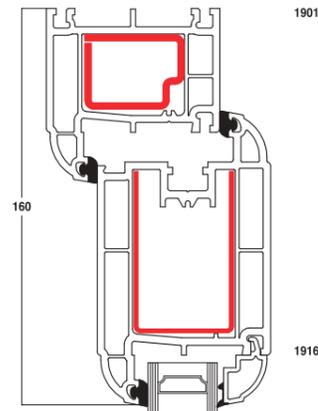
Tilt & Turn 70mm
Ovolo System



Tilt & Turn 70mm
Chamfered System

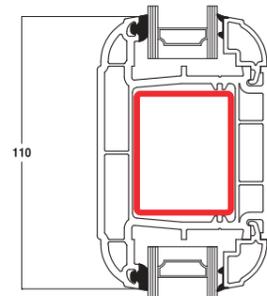
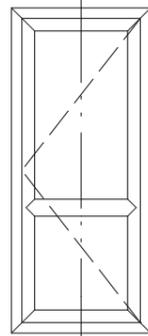


Door 70mm
Ovolo System

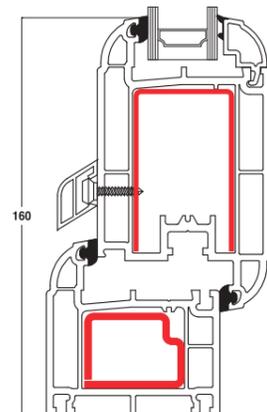


1901

1916

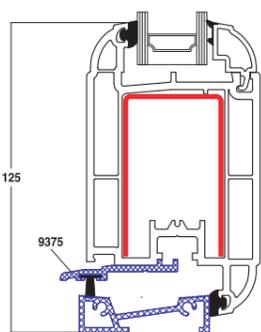


1923



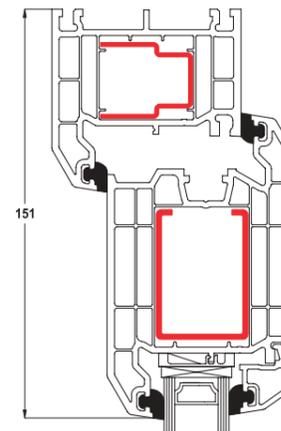
1916

1901



1916

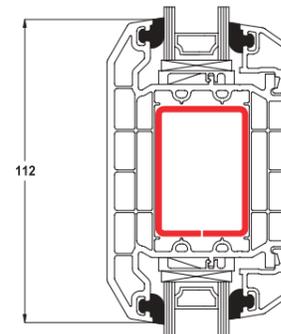
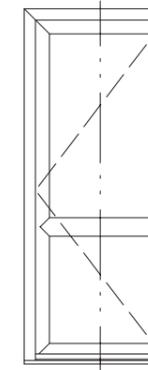
9376



7507

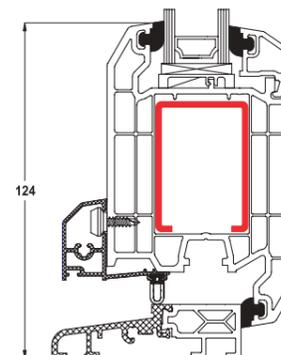
7584

Option 7585



7538

Option 7533, 7536



7584

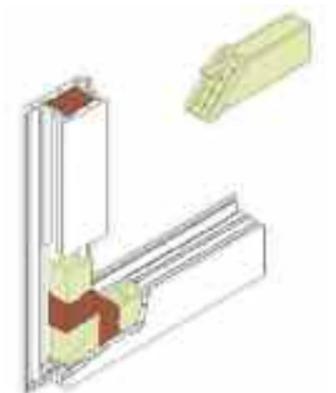
Option 7585

7789

Weatherbar 5784

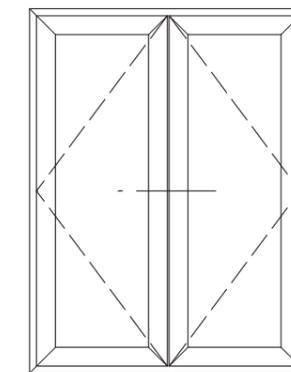
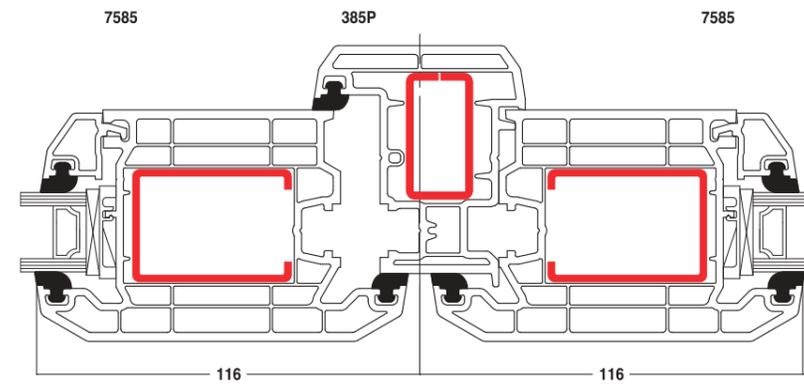
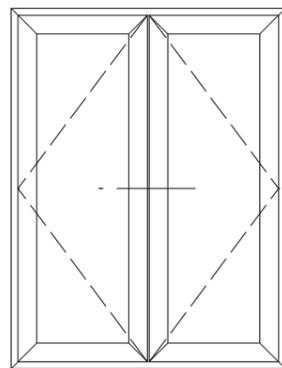
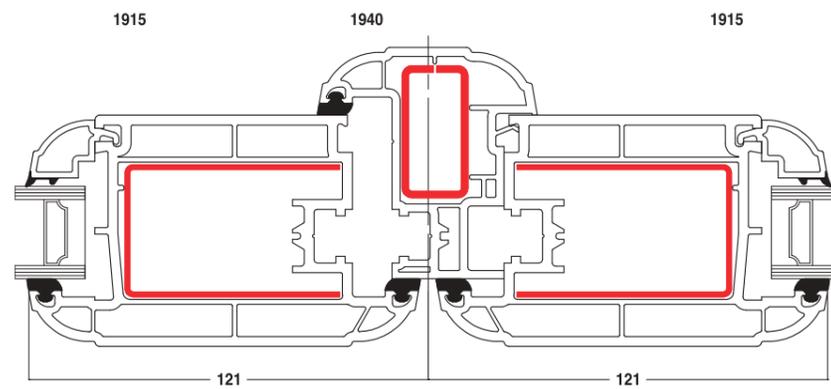


Door 70mm
Chamfered System





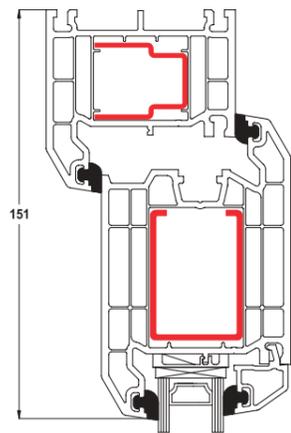
**French Door
70mm Ovolo System**



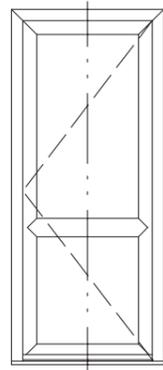
**French Door 70mm
Chamfered System**



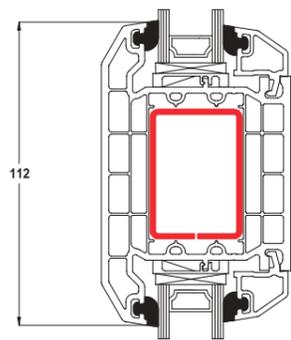
Low Threshold 70mm Chamfered System



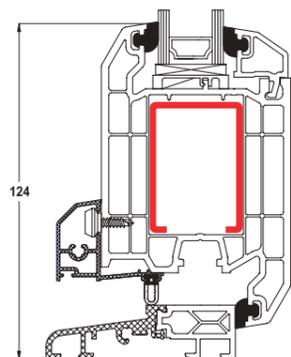
7507



7584
Option 7585

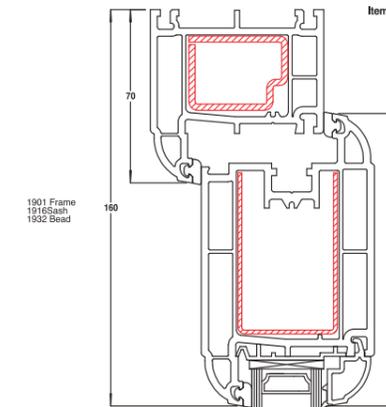


7538
Option 7533, 7536

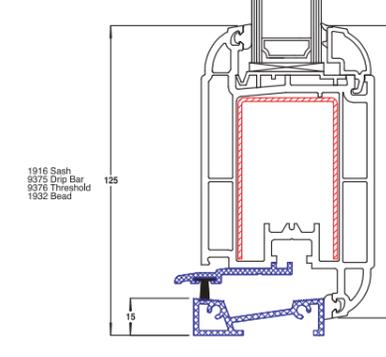
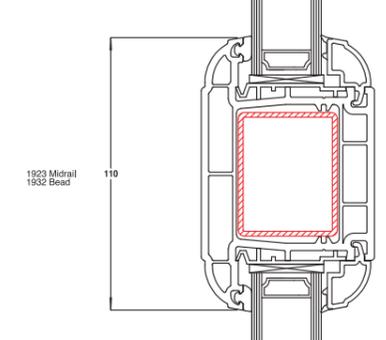


7584
Option 7585

7789
Weatherbar 5784



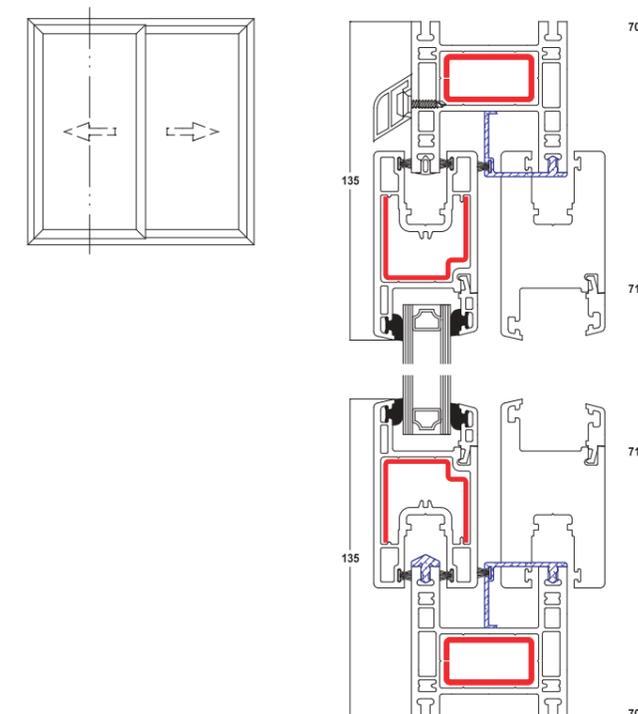
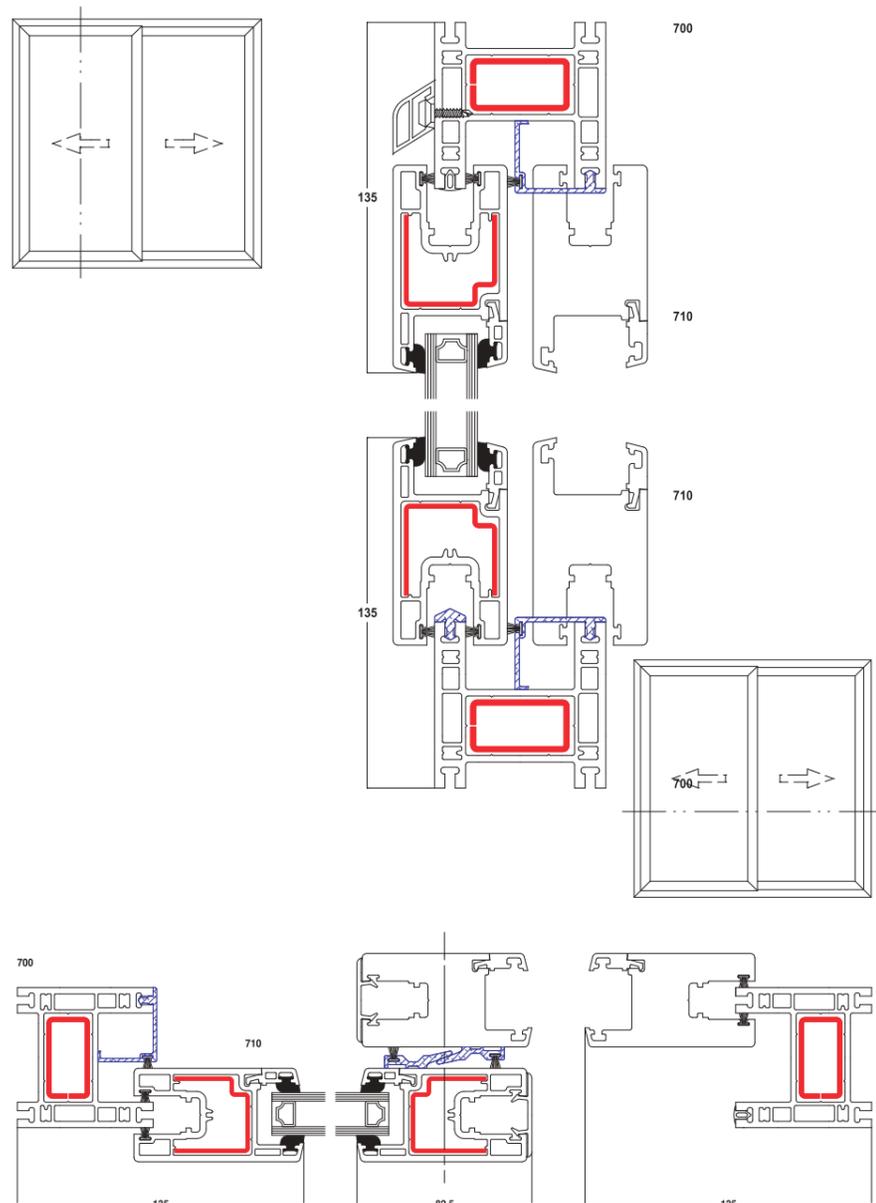
Low Threshold 70mm Ovolo



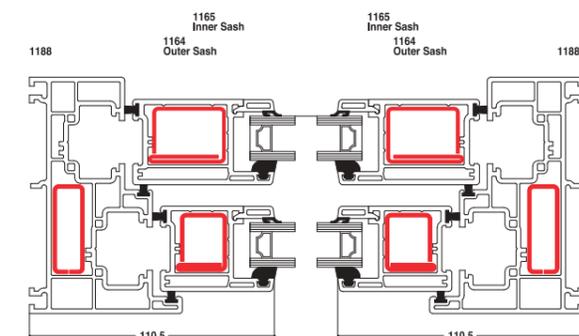


PremiLine

Patio Door



Vertical Slider





**Specialised Products
GlassWin**



**AluStar-70
An intelligent
aluminium cladding
system for window
profiles**

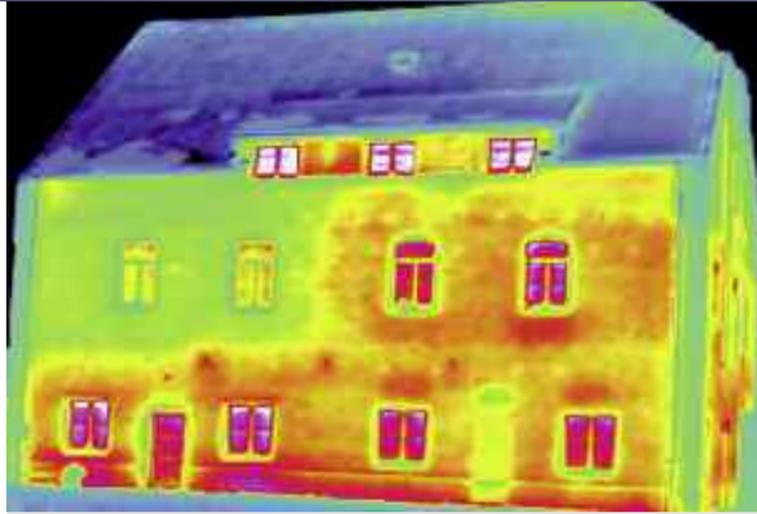
Various energy ratings up to 'A' can be achieved, dependent upon the type of sealed units being used and the level of reinforcement.

Kömmerling Connaisseur would typically achieve a "C" Rating; Kömmerling C70 will typically be better. For further information please consult our Technical Department.

Energy Ratings

**Our high performance profiles
can achieve Energy Ratings up
to 'A' with the appropriate sealed
unit**

Rating	WER Index
A	>0
B	>-10/<0
C	>-20/<-10
D	>-30/<-20
E	>-50/<-30
F	>-70/<-50
G	<70

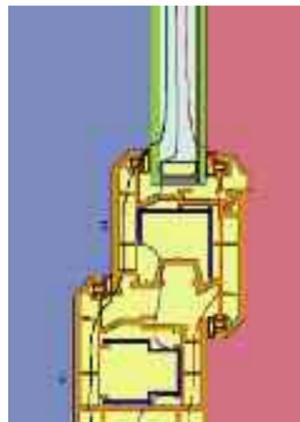


Thermal Information

Kömmerling PVCu windows and doors, used in conjunction with the correct Low 'E' glass sealed units, ensures compliance with the thermal insulation requirements of Building Regulations Document 'L' (England & Wales version) Document 'J' (Scotland) and Document 'L' (Republic of Ireland version).

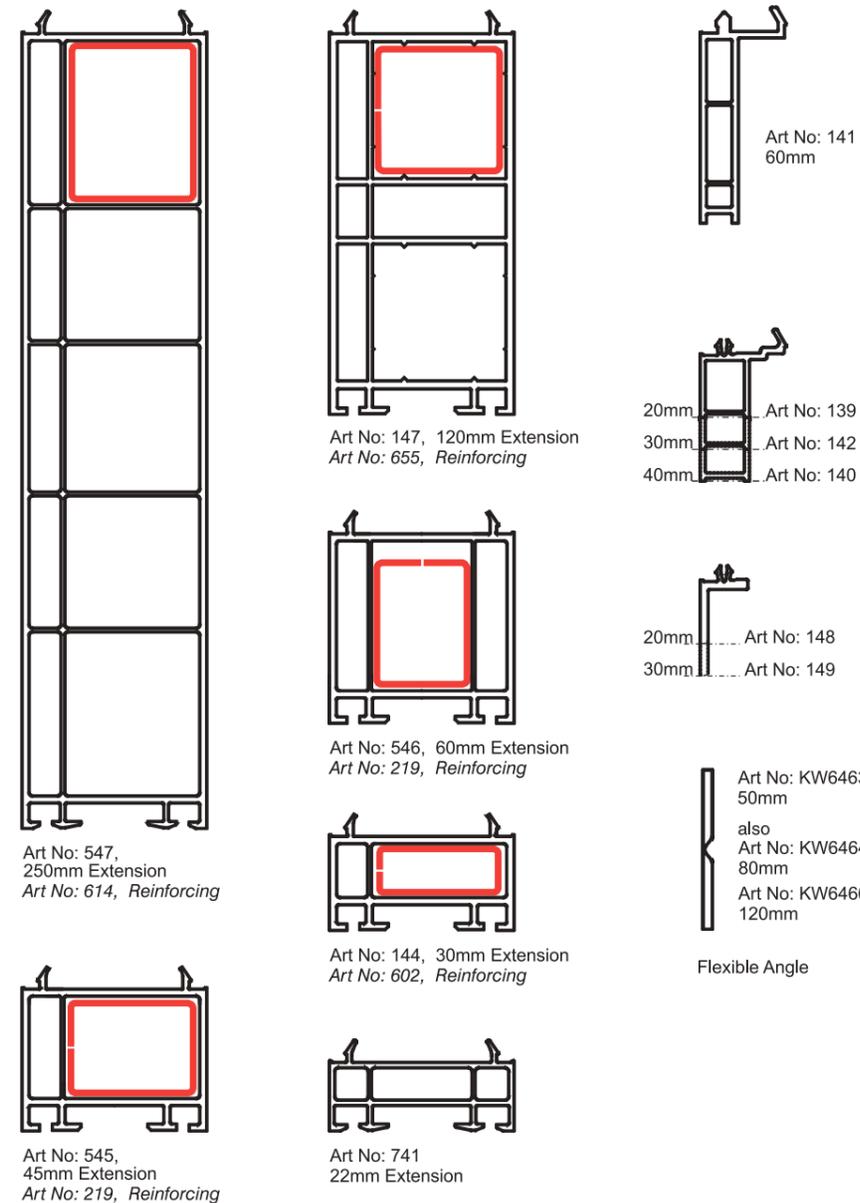
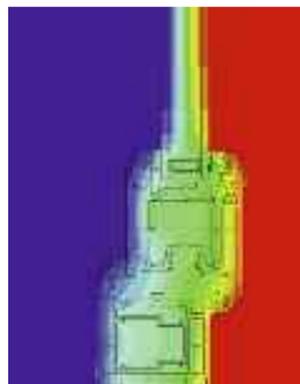
Note: The lower the $W/(m^2K)$ value, the better the insulation

When considering the insulation properties of a window, the frame materials have to be assessed together with the type of sealed unit. There are many varieties of glass available, with properties designed to improve the comfort of the occupants and reduce the energy requirements and consequently, the running costs of the building.



Sound Insulation

Sound insulation is dependent upon glazing specification but Kömmerling Window Systems have previously achieved ratings of 45dB. For further information please consult our Technical Department.

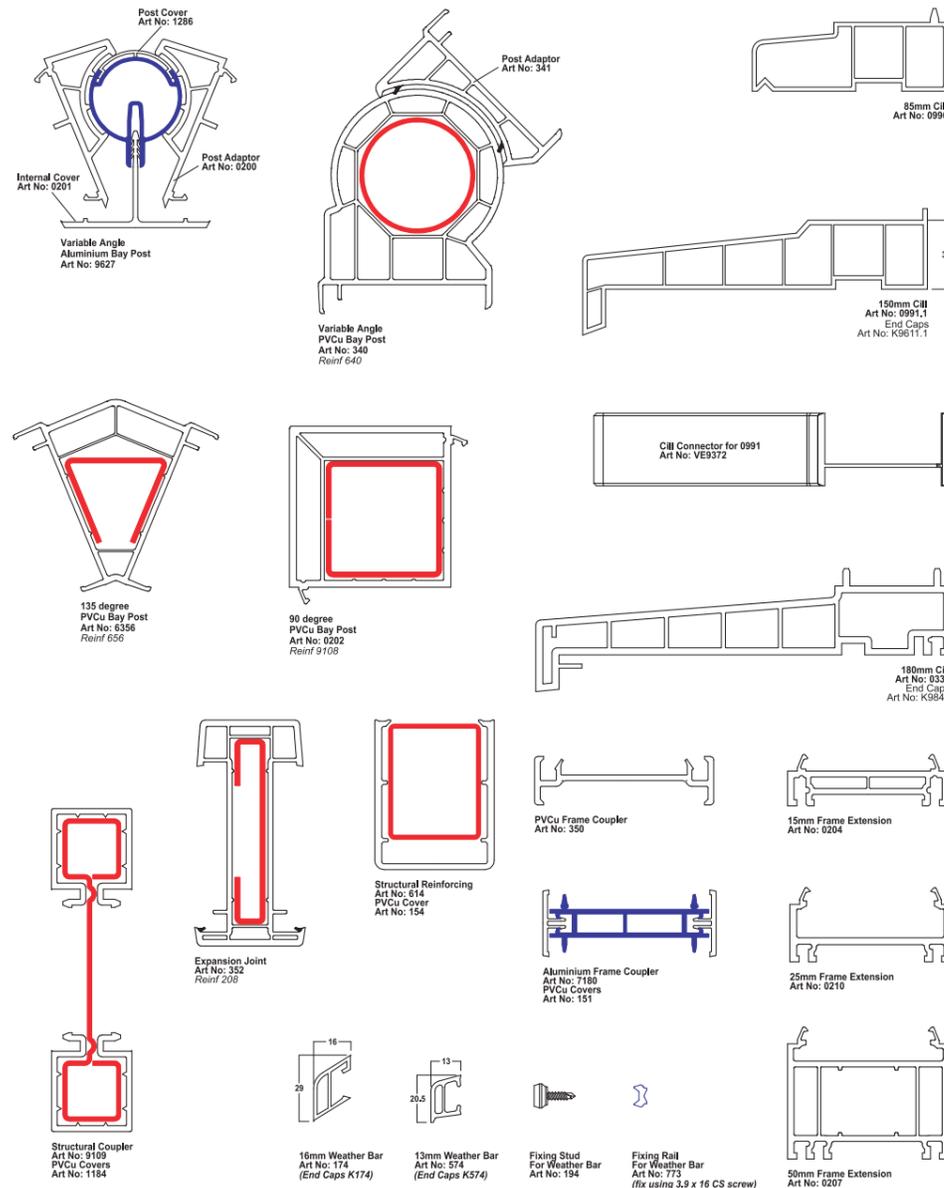


Ancillary Profiles





Ancillary Profiles



When specifying windows and doors, it is imperative that all relevant Building Regulations, Codes of Practice, etc., are complied with. We recommend that complete copies of these documents are obtained from the relevant authorities and that the Specifier is fully conversant with the contents of the latest versions

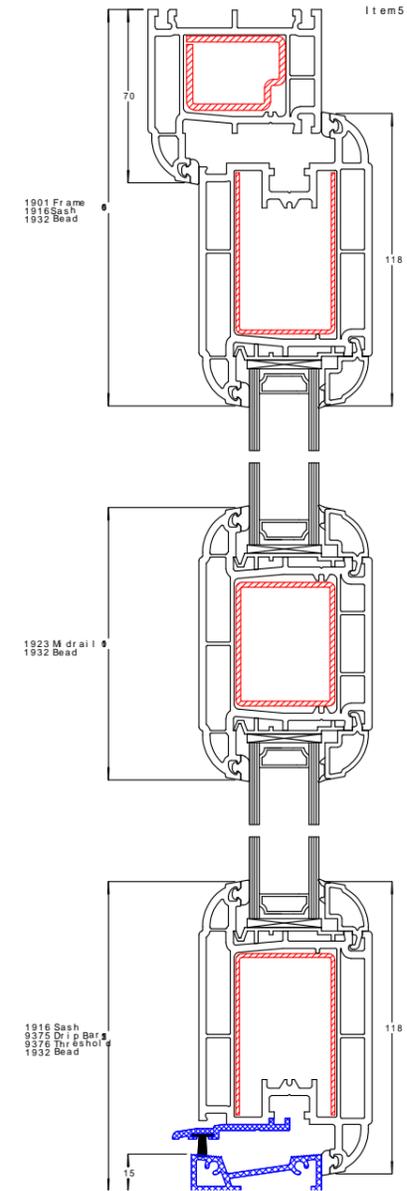
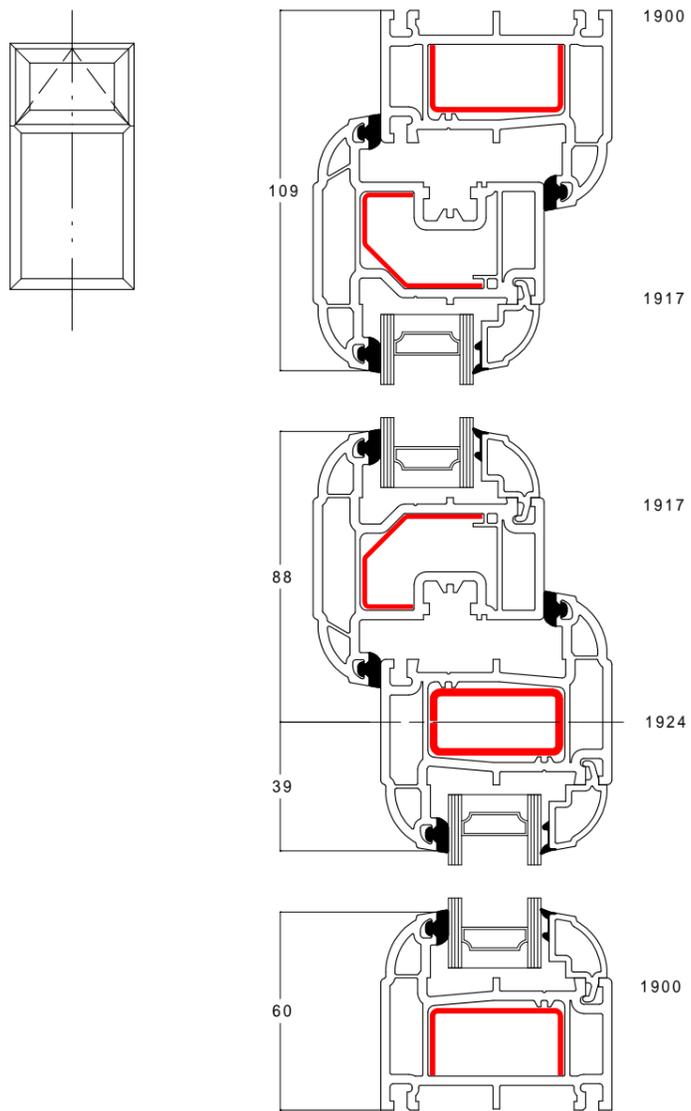


Design Information





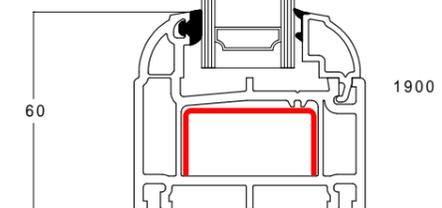
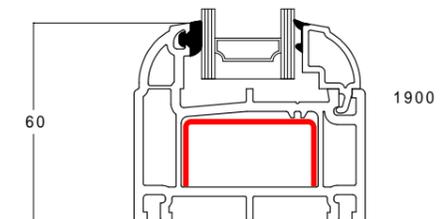
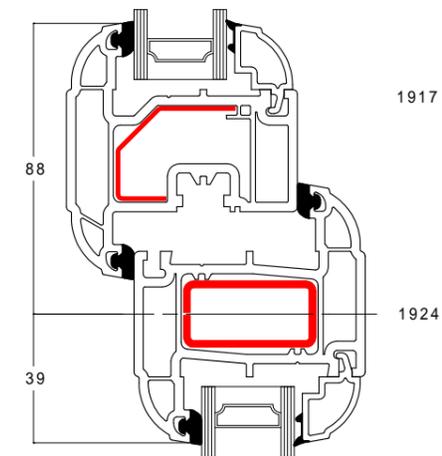
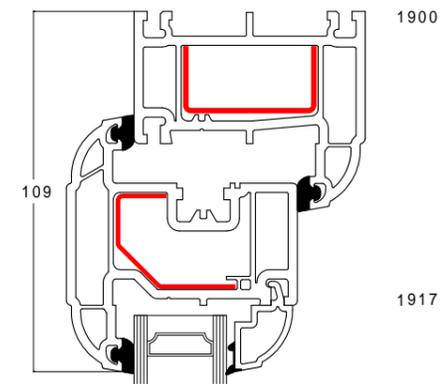
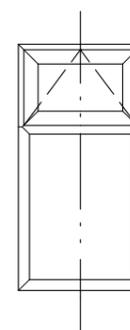
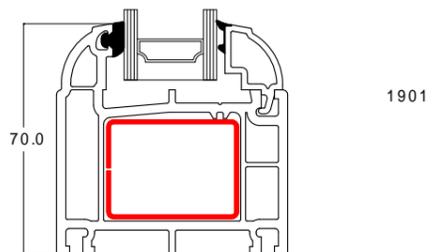
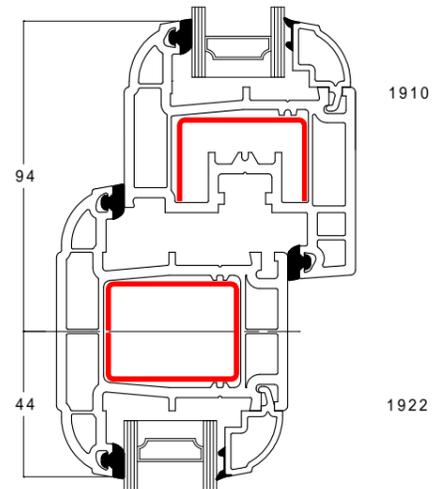
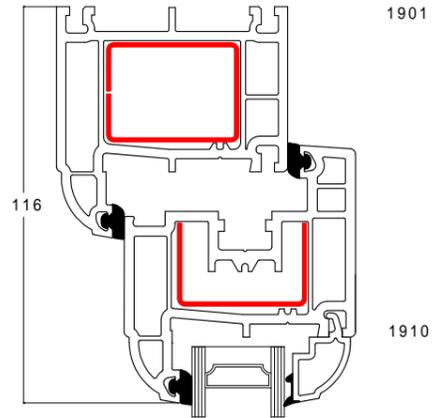
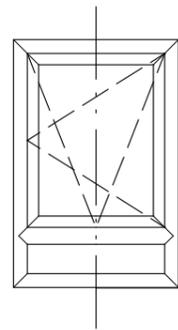
????????????????



????????????????



????????????



????????????????