uni_one
TECHNOLOGY

Technology for Window revolution

ENG ed. 01/2020

wood - aluminium frames

from 6-meter finished wooden bars

reduced traditional production costs

Production technology

uni_one uses a production technology created to produce wood-aluminium frames, using pre-finished 6-meter bars that are ready to be cut and assembled.
uni_one is a technological system that allows the producer to simplify, optimize and implement his own production.

Thanks to this technology, windows can be produced quickly and with lower costs, with no expensive production plants nor highly-skilled woodworking staff.

Materials

Comfort and well-being inside, resistance and protection outside.
Thanks to the combination of wood and aluminium, the window becomes
a decorative furnishing element that does not require external maintenance.

Wood

Warm, stylish, renewable and natural, wood is capable of enriching a room and creating a warm atmosphere. Our wood is protected and enriched with an easy-to-maintain Silk finish, which is highly resistant to impact, scratches and moisture, or, with our Natura finish in stainable Oak Veneer, which adds individuality to the frames, making them beautiful and unique.

Internal

Our glue-lam wood, due to its technical characteristics and stability, is ideal for constructing door and window frames.
It is characterised by good workability and durability. The type of wood used contains a higher proportion of air, making it ideal for achieving high performance in thermal and acoustic insulation.
uni_one wood comes from renewable sources with FSC® certification and Chain of Custody - and is produced using glue-laminated bars technology, enabling optimization of this resource.

Aluminium

Our aluminium frames protect the wooden interior of the window, keeping it dry, sturdy and durable.
Our aluminium frames are produced using corner welding technology, which maximises strength, quality and appearance. Where corners cannot be welded, a mechanical joint is created by gluing and crimping, with support blocks beneath, for frames with anodised, wood-grain and metallic finishes.

External

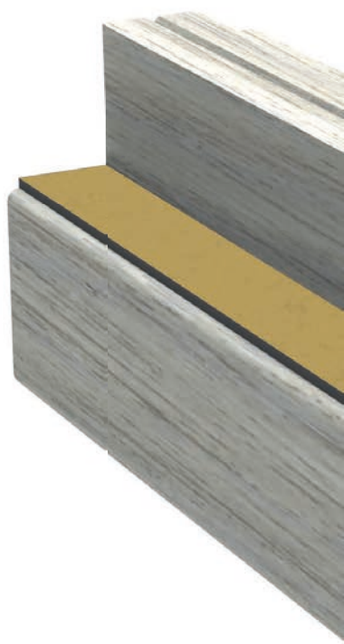
Our external aluminium avoids the need for any type of maintenance and optimises the water-resistance and air-tightness of the windows, giving designers the best opportunity to express their creativity with optional designs and colours. The coating process carried out after welding ensures perfectly watertight corners, which are completely protected by the paint and which improves the aesthetics of the finished product.

uni_one aluminium coating involves the following:
- immersion pre-treatment using closed-cycle chrome-free products;
- powder coating with furnace polymerisation.

The coating cycle is carried out according to the European QUALICOAT standard.

Wooden bars: the origin of everything

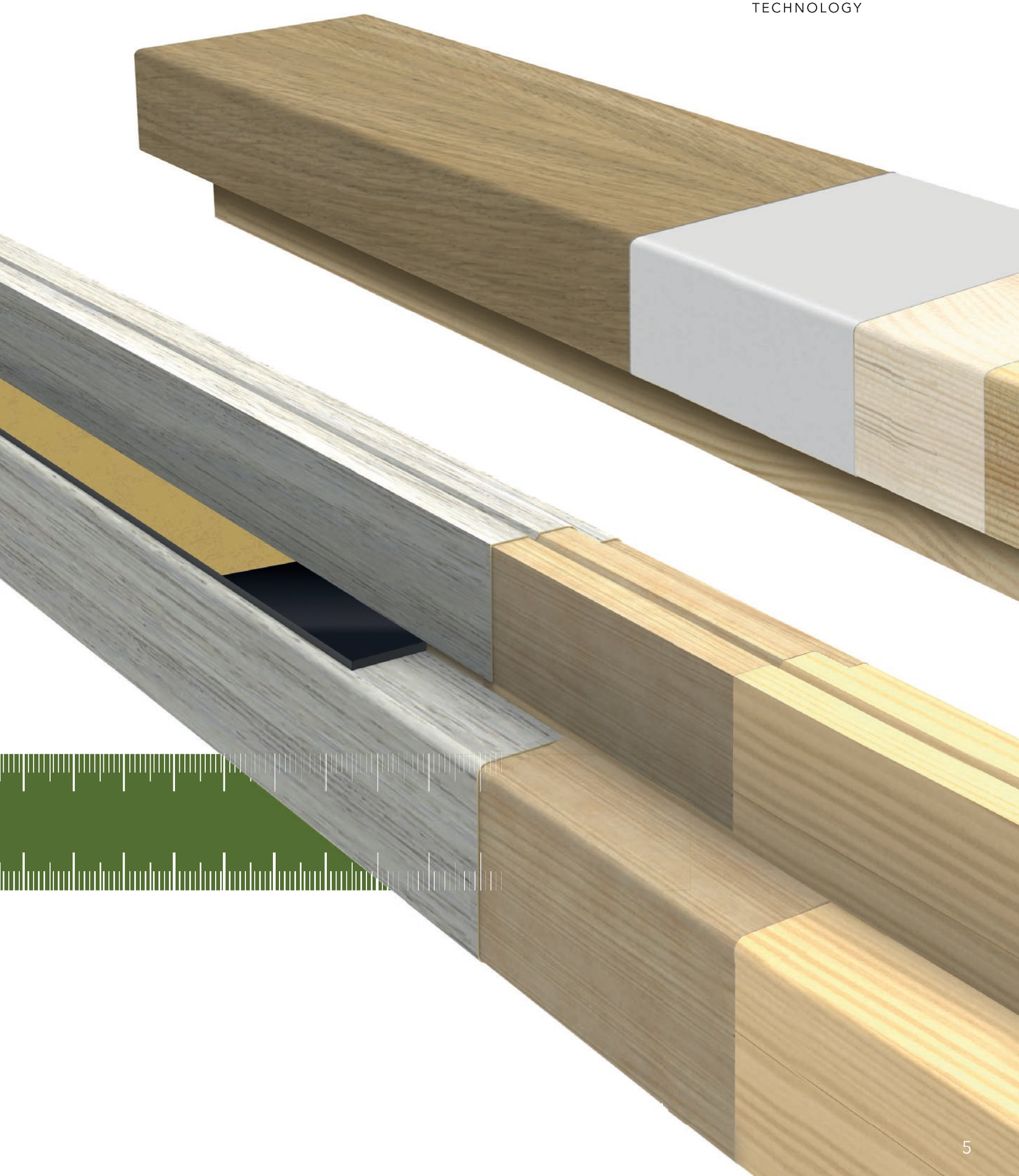
For the first time, wood-aluminium window and door are produced starting from a pre-machined and pre-finished 6-meter wooden bar.
The wooden bar is the quintessence of uni_one, the beating heart of its production technology.
During the initial production start-up phase, the supply of pre-assembled wooden frames is also available, for greater customer support.



Natural Revolution

Natural: like wood.
Revolution: like revolutionary production technology.
With uni_one, nature is enhanced by engineering technology and a revolutionary production method that overturns the rules of the traditional production of wood-aluminium window and door.

uni_one
TECHNOLOGY



uni_one Technology

uni_one technology is an original thought, a philosophy, a method. We have developed it by converting years of technological evolution into a few steps. Our synthesis: fast and accurate processing machinery, aluminium and glue-lam wood profiles with Silk and Natura finishes, dedicated software and a sales tool kit.

DEDICATED SOFTWARE

WOOD AND ALUMINIUM PROCESSING AND ASSEMBLY MACHINES

WOOD AND ALUMINIUM PROFILES AND ACCESSORIES

TECHNICAL SUPPORT AND TRAINING

SALES TOOLS

SIMPLE

It all starts from a 6-meter wooden bar.
The major innovation introduced by uni_one technology is the ease of management and production of door and window frames, in addition to an extremely simple profile assembly system.

FAST

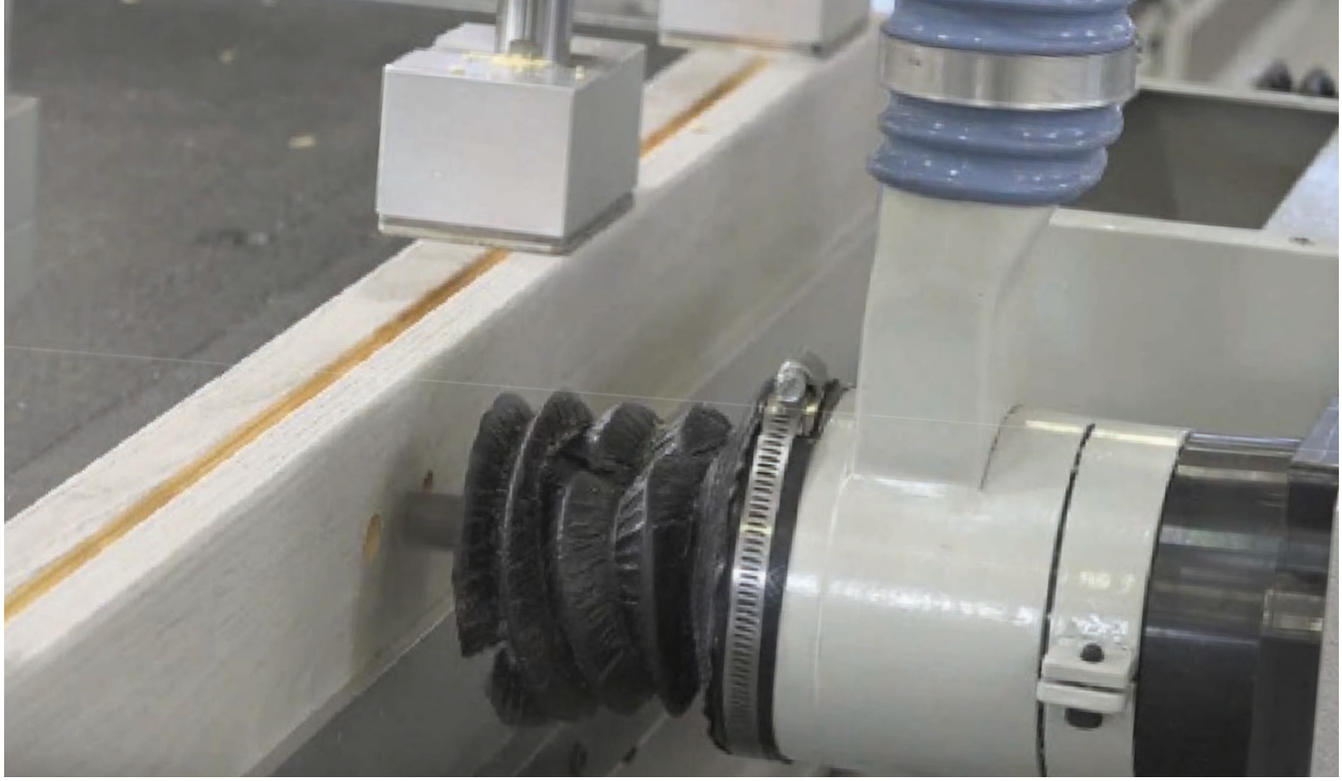
Fast and accurate processing, thanks to the CNC processing centre, developed to produce all uni_one timber components.

THE RIGHT VALUE

Manufacturing using uni_one technology is economic because, unlike other production systems, it does not require expensive production plants and not highly-skilled woodworking staff.

COMPLETE

A unique production technology that fully supports the window manufacturer. From the design stage, using dedicated software, to the production of the finished window. uni_one manufacturers can rely on a team of experts for training and the availability of a wide range of sales tools to present the product effectively.



uni_one turnkey workshop

For the processing of all uni_one wood and aluminium components, Uniform has developed a fast and accurate work methodology and a collection of complementary equipment for assembling and crimping frames. uni_one technology provides immediate entry into the production reality of high quality windows, in order to respond to an increasingly demanding and dynamic market.

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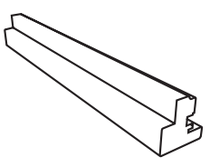
REDUCED PRODUCTION COSTS

REDUCED OVERALL DIMENSIONS



6-METER FINISHED WOODEN BARS

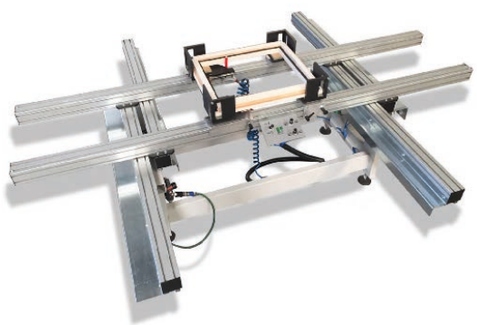
WOODWORKING SKILLS NOT REQUIRED

Pro-F2 software

Pro-F2 uni_one is the software used for the development of quotations and orders: it is intuitive and easy to use, thanks to its interface, which guides the operator step by step, provides for the compilation and automatic printing of all CE marking-related documentation, including pre-customised labels with order and service references.

MC-900 CNC machining center for wood profiles

CNC center for machining wooden profiles, connected to the dedicated software to carry out the processing of all uni_one wood profiles.



MC-062 assembly bench

Bench for assembling uni_one wooden profiles.
Through pneumatic manual controls, it enables the locking of the crosspieces and uprights of the frames to assemble the corners using screws in horizontal position.

LACV-98 vertical crimping machine

A pneumatic vertical crimping machine with a self-centring device on the corner joint for the mechanical assembly of aluminium profiles.

Start-up Formula

The start-up formula involves the supply of pre-assembled wooden frames, with or without assembled hardware and the supply of software, for one-year rental, for developing contracts. It is specifically designed to offer technical and production support, especially during the early stages of production start-up.

Support and training

A team of professionals and technicians is available to provide training, support and to guide the installation and start-up of the software and production workshop, step-by-step.

Sales tools

In order to take on the market successfully, we provide you with an effective and complete set of sales tools, including display stands, wood and aluminium finish cases, customisable corner samples and brochures.

uni_one: evident quality

All uni_one systems range is certified and guaranteed for 10 years

QUALITY GUARANTEES

Perfect adhesion of veneer films on uni_one glue-lam wooden profiles

Resistance to corrosion phenomena in the coating of aluminium products
relating to frame systems in the catalogue, due to exposure to normal weather conditions and coastal environments

No mechanical breakages of metal accessories, in plastic material and no wear and tear of gaskets

Always attentive to the environment

For the uni_one bars, Uniform uses only wood derived from FSC® certified forests in order to support the principles of sustainability and respect for both mankind and nature. In addition, production using laminate technology optimises the use of timber resources, by minimising waste.

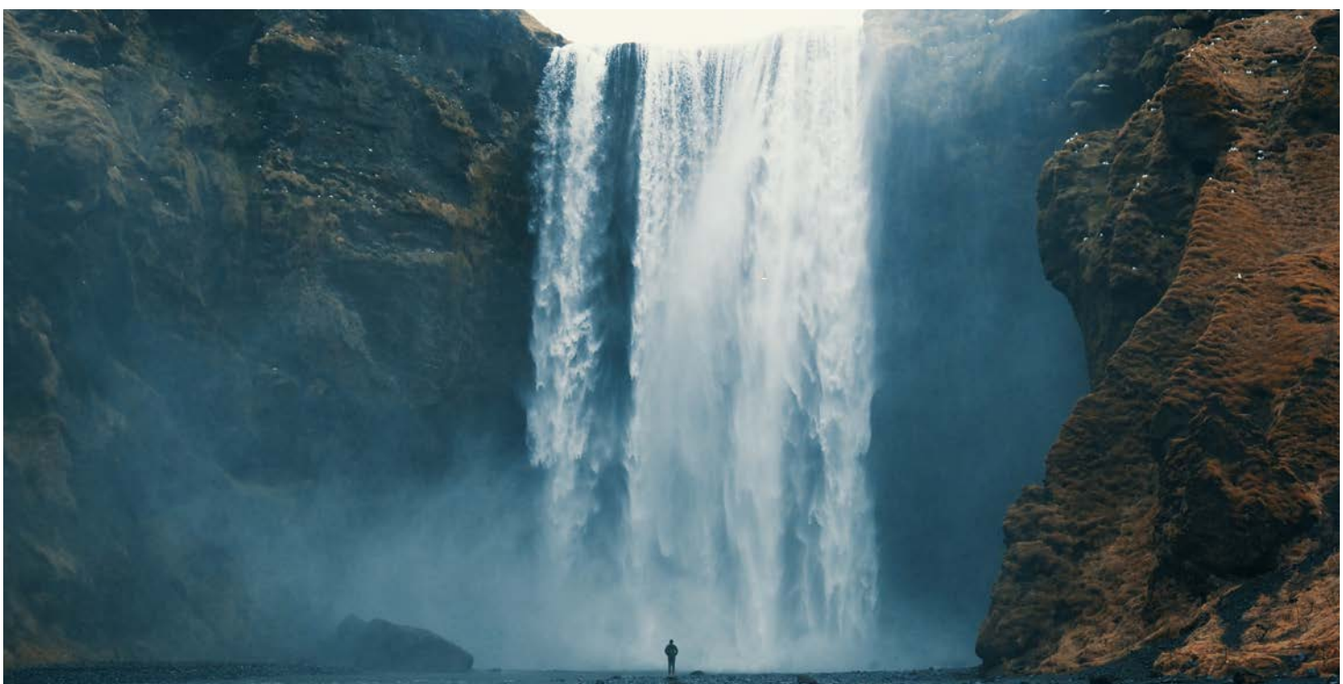
Absolute quality in the treatment of aluminium

Uniform regularly conducts accelerated ageing and corrosion-resistance tests in highly critical atmospheres, regulated according to European legislation and by following the parameters set by the QUALICOAT standard.

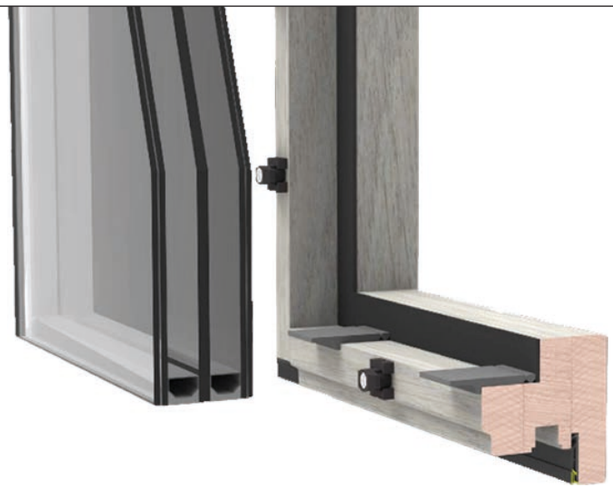
Total cascading safety

For uni_one frames, Uniform provides cascading ITT, integrating it into the development software and has produced a series of CE marking support documents, enabling customers to quickly and fully meet all regulatory requirements.
The cascading mechanism comprises the following components:

The contract
Thanks to the cascading mechanism, a licence agreement can be signed with Uniform S.p.A.,
in accordance with the requirements of the relevant legislation.
Test reports
Once the agreement has been signed, Uniform shall provide a copy of all test reports,
conducted on uni_one frames, according to the standard EN 14351-1.
User and maintenance manual
Uniform provides an elegant booklet, also supplied in a customisable format,
containing the information that the window manufacturers need to convey to the end users.
Performance declaration and CE marking
Documents are provided in file and customisable format, drawn up in accordance with European Regulation CPR no. 305/11
and with the EN 1435-1 standard, which can be filled in easily and immediately (CE conformity declaration) (CE marking).



The benefits of uni_one Technology

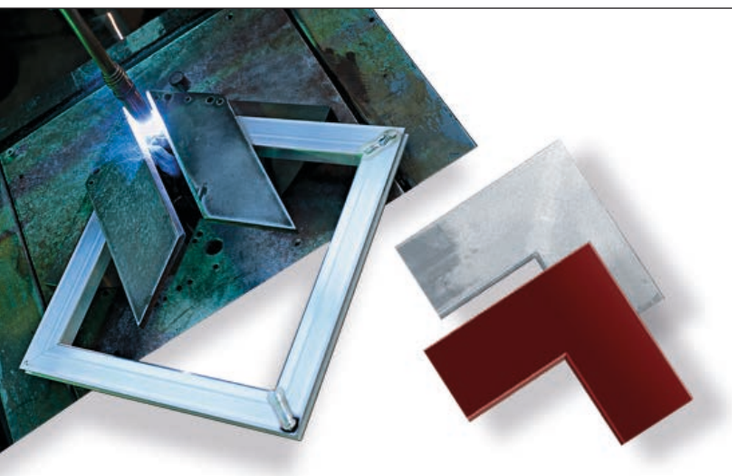


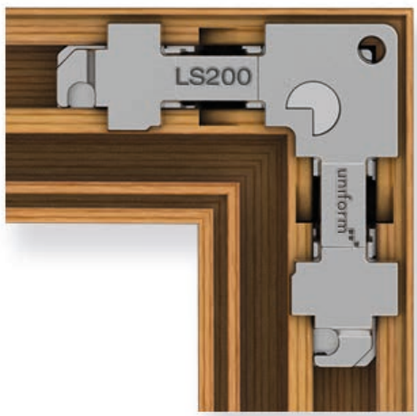
Structural wood-glass bonding

Glass, glued to the wooden structure using structural double-sided adhesive tape, makes the window dimensionally stable and rigid at all times, which enables much larger and brighter openings to be created. The structural bonding of the glass to the wood distributes the load in a linear manner, eliminates tension peaks on the panels and prevents deformations on the glass. The structural bonding also improves thermal and acoustic insulation, ensures greater burglary protection, maximum safety and functionality for the entire life of the frame.

Coupling of aluminium frames on wood

Aluminium frames are joined to the wood using screwed nylon clips. The clips are snapped together on the profile, and by turning the clips using a special key, the frames can be disassembled.





External coating with welded corners

Our aluminium frames can be produced using corner welding technology, which guarantees maximum strength and quality.

External coating with mechanical joint

Our junction system using caulked aluminium corner joints is used for oxidised, wood-grain and metallic finishes frames. The mechanical joint provides a single corner joint (LS200) for all uni_one system aluminium profiles.

STANDARD FOR ALL COATED UNIFORM PRODUCTS

Aluminium

Coating process

Uniform uses a modern coating system that guarantees service quality and speed.

01 Qualicoat Seaside Pre-Treatment

Pre-treatment, performed according to the Qualicoat Seaside Cycle requirements, guarantees improved binding of the powder to prevent corrosion. The minimum surface removal is 2.0 g/m² (compared with the basic procedure, in which only 1.0 g/m² is removed).

02 Powder application

Polyester powders have a lasting effect and provide a high level of protection. They are applied by electrostatic attraction, ensuring uniform distribution over the entire surface, even in the most inaccessible areas.

03 Cross-Linking

After applying the powder, the pieces are immediately baked at a temperature of between 180° and 200°C for 20 minutes.
The time guarantees the optimal polymerisation of the powders, with the creation of a solid, protective film.

Treatments on request

Welding Plus

The welding of the corners of frames, shutters and blinds intended for areas with an aggressive atmosphere (e.g.: coastal areas, urban areas and industrial areas with strong combustion gas emissions, railway areas, etc.) can be performed using a special technology developed by Uniform that counteracts corrosion. This treatment is known as WELDING PLUS and is carried out only upon specific request by the customer, following confirmation of the offer, in addition to the basic QUALICOAT SEASIDE pre-treatment.

Mechanical and corrosion tests

Uniform conducts regular tests according to European legislation in compliance with the requirements imposed by the Qualicoat standard, an organisation that manages a quality brand of aluminium and its alloys for architectural applications.

- Paint adherence
- Coating thickness
- Deep drawing test
- Bend testing
- Impact-resistance test
- Shine test
- Machu test
- Acetic salt for resistance test

Class 2 powder

In areas with Annual Average Solar Radiation greater than 5,400 Mj/m² and, especially, in areas with an aggressive atmosphere (e.g.: coastal areas, urban areas and industrial areas with strong combustion gas emissions, railway areas, etc.), a Class 2 Qualicoat polyester powder can be used, which is more resistant to atmospheric agents than Class 1 powder.
Class 2 powder is applied only upon specific customer request following confirmation of the offer and availability of the desired RAL (the Class 2 colour range is more limited than for Class 1).

SILK

Technical Essence

- Silk is a latest-generation single-layer finish, printed with synchronised grain texture.
- Used in the most prestigious contemporary furnishings.
- It gives more value to your window, creating a perfect harmony with the furniture and doors in client's surroundings.
- High resistance to impact, scratches, humidity and stains, offering a perfect inalterability of colour when exposed to light.

RESISTANT TO

HEAT/WATER

LIGHT

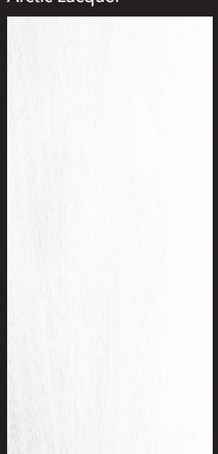
SCRATCH

CHECMICAL PRODUCTS

ADHESION

DIRT

MSxP3
Arctic Lacquer



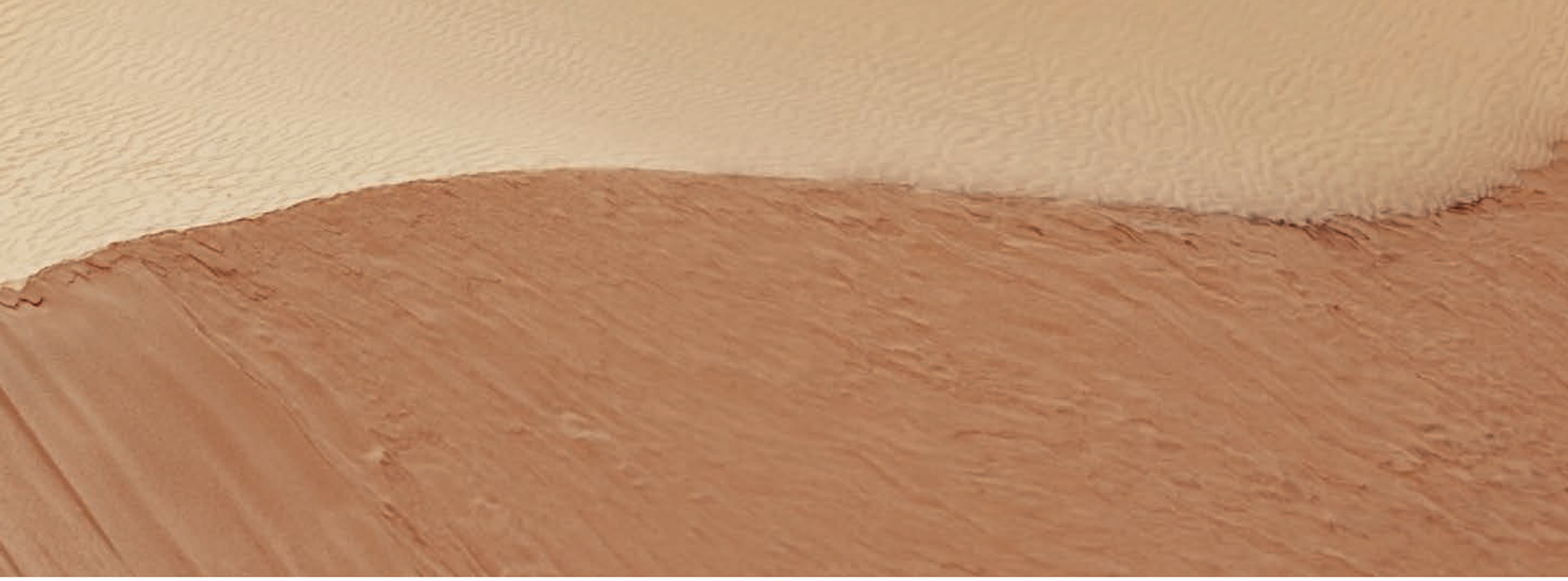
MSxP1
White Lacquer

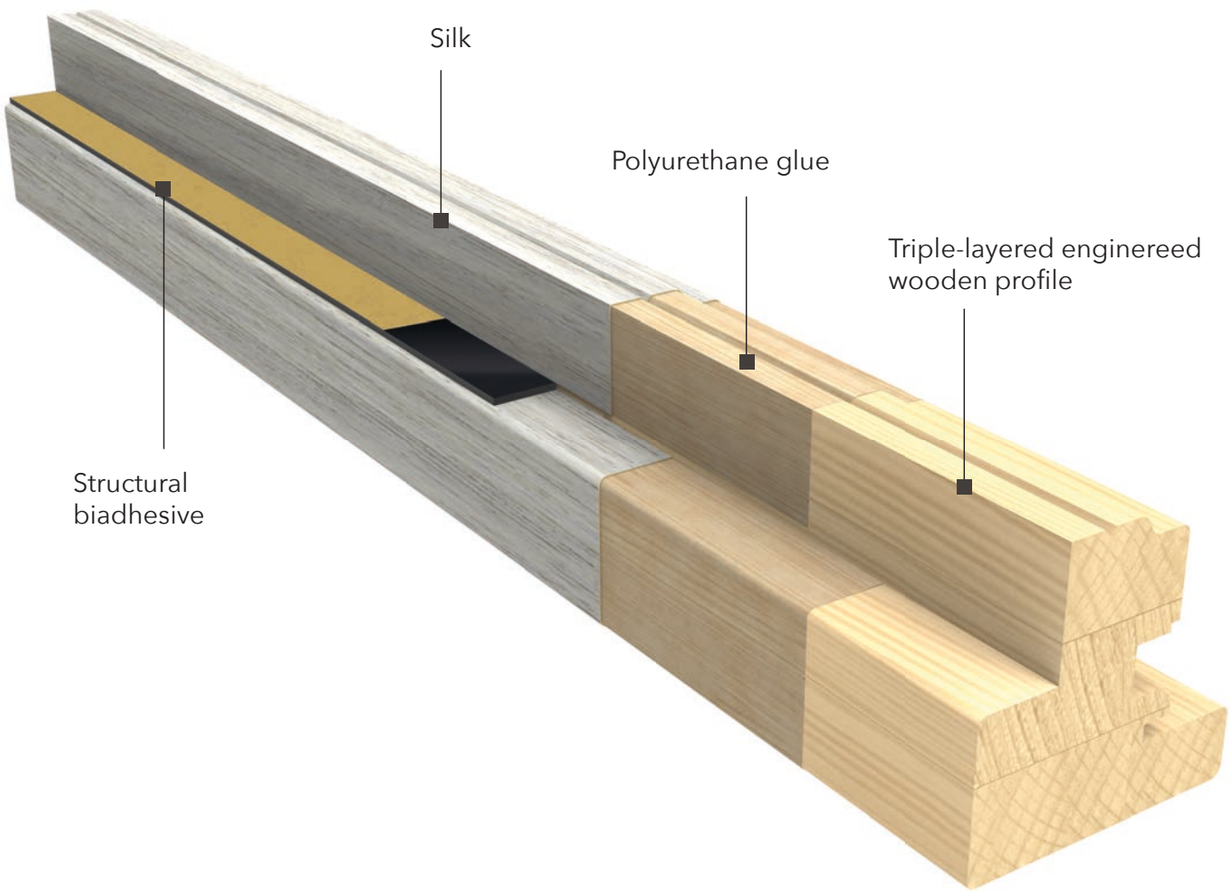
MSxP2
Grey Lacquer

MSxR1
Grey Oak

MSxR2
Sand Oak

MSxR4
Anthracite Oak





The finishes shown in this brochure are for illustration purpose only and the colours may not exactly match the real shades of the wood types.

MSxR5
Brown Oak

MSxF1
Ash

MSxR6
Naked Oak

MSxR3
Natural Oak

MSxC1
Cherry Wood

MSxN1
Classic Walnut Wood

NATURA

Emotion and material sensory aspects

- The Natura Oak Veneer finish adds materiality to frames, making them authentically elegant.
- It uses the “first trunk selection”, which is the most valuable part of the wood, to achieve uniformity of the wood grain.
- Warm and stylish. Wood fits into any environment and style giving your home a timeless value.
- Available in different colours to match windows to floors and interior doors.
- 100% renewable, fully respecting of man and nature.

OAK VENEER

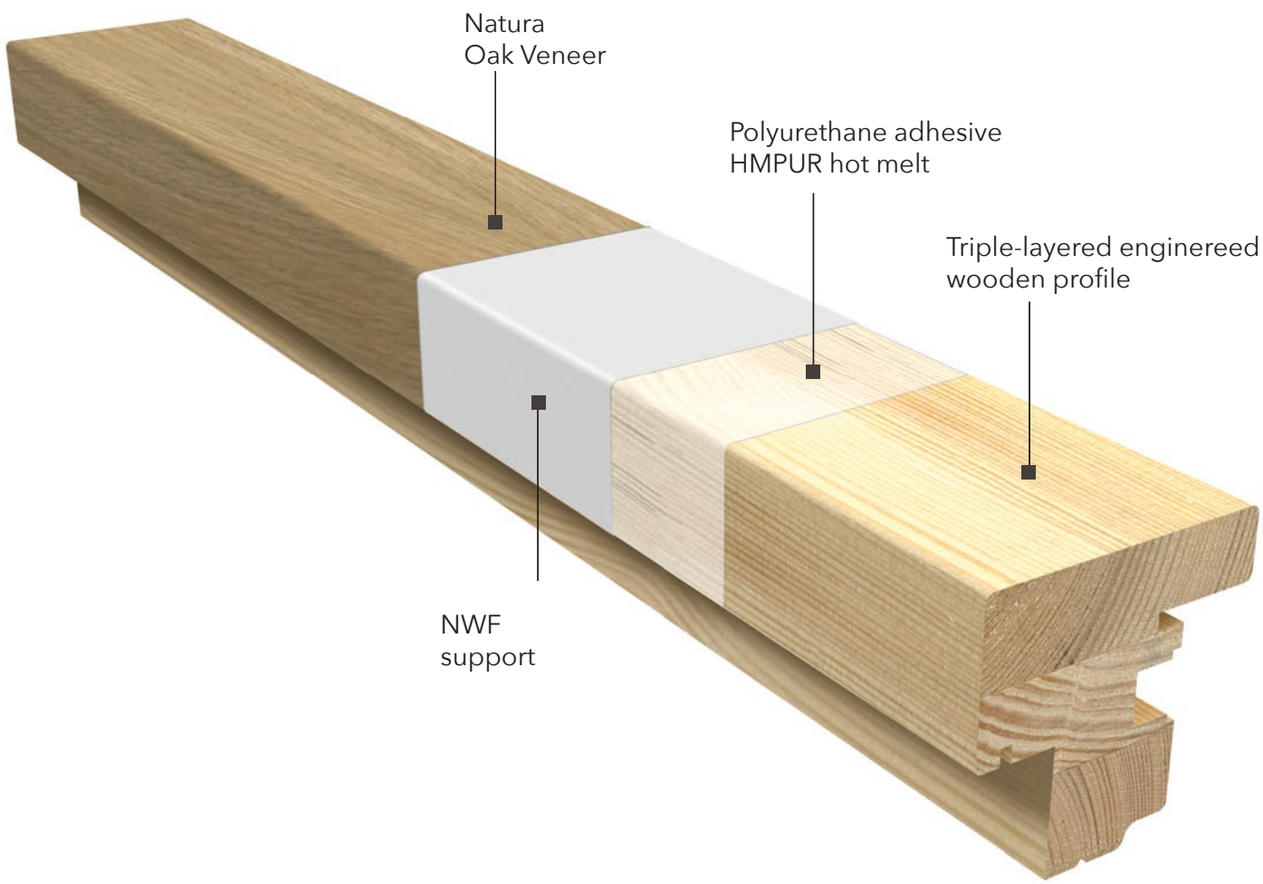
WOOD TYPE
European oak, supported with NWF 50 g/m²

BONDING
Class D4 vinyl glue

THICKNESS
0.36 mm polished with abrasive grain type 220

GRAIN
Vertical grain half-crown with no joint up to a width of 145 mm with one joint in the centre for larger widths

JOINTS
Finger-joint with guaranteed minimum distance between one joint and the next of 800 mm



The finishes shown in this brochure are for illustration purpose only and the colours may not exactly match the real shades of the wood types. The NATURA finishes, with the exception of TRxTS, are available only on pre-assembled frames and not on 6m bars.

TRxTS
Raw Oak Veneer

TRx01
White Lacquer

TRx02
Ivory Lacquer

TRx11
Bleached

TRx12
Honey

TRx13
Tobacco

TRx14
Warm Walnut Wood

Materials and Design

The glue-lam wood gives to uni_one frame excellent qualities of mechanical resistance, dimensional stability and insulation.
The external coated aluminium frame does not require any type of maintenance and optimises its air-tightness and water-tightness.
The uni_one frame guarantees the best performance and maximum well-being, without the use of environmentally harmful products, in full respect of nature.
Pure lines and refined design. uni_one is a window in harmony with contemporary architectural design trends. The wood finishes, inspired by the most prestigious interior brands, create a harmonious environment with the doors and interior furnishings of the home.
Thanks to the minimal style, light becomes a natural element of furniture, a perfect balance between nature, aesthetics and technology.
The uni_one system is suitable for the most diverse different architectures and climatic situations. UNI as in universal, is capable of being the perfect furnishing accessory in any environment and in any context.

Photo by Adelina Iliev
Fletcher Priest Architects

Performances

AIR PERMEABILITY: CLASS 4
(MAXIMUM REACHABLE CLASS)

WATER TIGHTNESS: METHOD A - CLASS E1050
(ABOVE THE MAXIMUM REACHABLE CLASS)

WIND RESISTANCE: CLASS C5
(MAXIMUM REACHABLE CLASS)

SOUND REDUCTION:
INSULATION UP TO Rw = 46 dB

ENERGY SAVING: THERMAL TRANSMITTANCE VALUES
BETWEEN 0,7 W/m²K AND 1,2 W/m²K

The collection

OPEN IN

STANDARD
Double Glazing

STANDARD
Triple Glazing

BRONZE
Double Glazing

BRONZE
Triple Glazing

DROP
Double Glazing

uni_one

COPLANAR
Triple Glazing

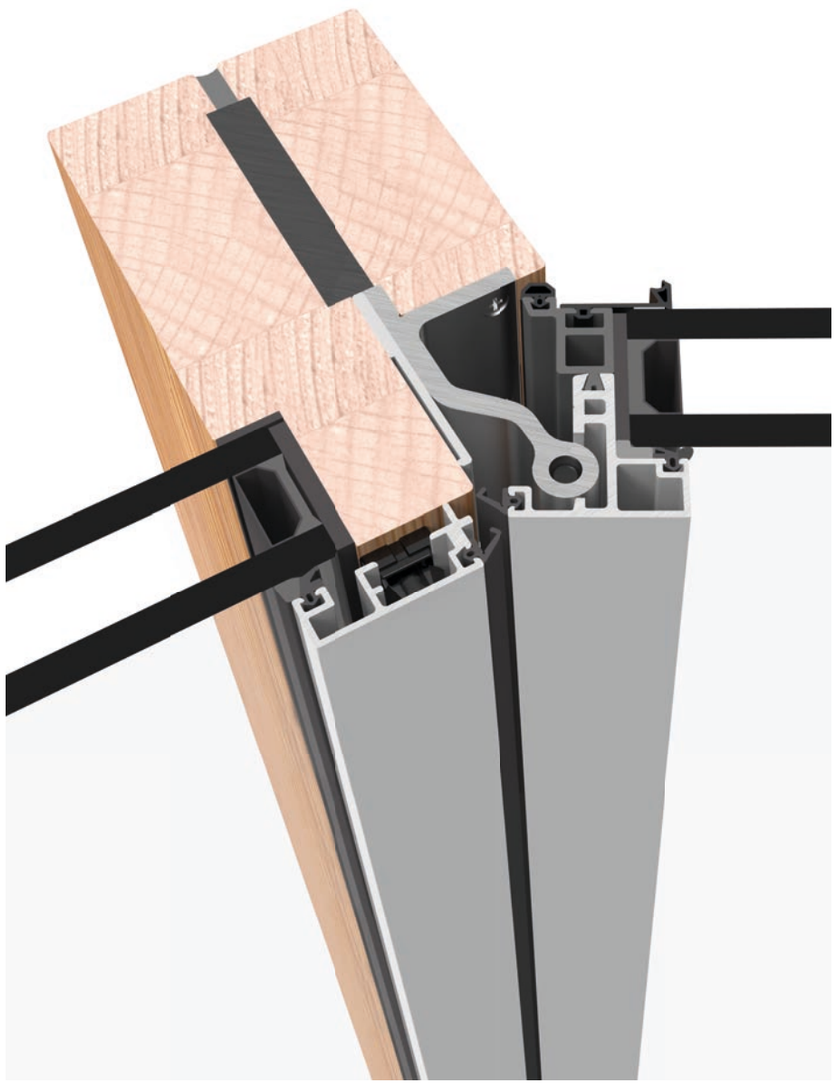
FLAT
Triple Glazing

SLIM
Triple Glazing

TERMOSCUDO
Triple Glazing

The collection

OPEN
OUT



FORMAT38
Double and Triple Glazing

uni_one

LIFT & SLIDE

HS-SLIM80 KIT UNIFORM
Double and Triple Glazing

HS-DUO80 KIT UNIFORM
Double and Triple Glazing

OPEN IN

uni_one STANDARD

DOUBLE GLAZING **Uw=1,2** W/m²K

Material	Wood-Aluminium
Thermal insulation	Uw= 1,2 W/m²K
Insulating glass	Double glazing thickness 28-32 mm
Acoustic insulation	Rw up to 40 dB
Security hardware	Up to RC2

Dimensions in mm.	
Thickness of sash	83,5 x 70 mm
Thickness of frame	77,5 x 70 mm
Visible section sash + frame	106 mm
Visible section middle clamp	116 mm

Air permeability	CLASS 4
Water tightness	CLASS E1050
Wind load resistance	CLASS C5

The thermal transmittance values are calculated according to UNI EN 10077/1-2018, UNI EN 10077/2-2018, UNI EN 10456-2008, UNI EN 673-2011 standards, in reference to a window with 1 sash WxH (1230x1480mm, ψg= 0,04 W/mK)

The air-water-wind tightness performances are certified in reference to a window with 2 sashes WxH (1500x1500mm)

The acoustic insulation values are certified in reference to a window with 2 sashes WxH (1500x1500mm)

STANDARD - 28 mm glass
SOFT WOOD
Uf = 1,2 W/m²K

Ug W/m²K		**Uw** W/m²K
1,0	-»	1,2
1,1	-»	1,2
1,2	-»	1,3
1,3	-»	1,4
1,4	-»	1,4
1,5	-»	1,5
1,6	-»	1,6

OPEN IN

uni_one STANDARD

TRIPLE GLAZING **Uw=0,8** W/m²K

Material	Wood-Aluminium
Thermal insulation	Uw= 0,8 W/m²K
Insulating glass	Triple glazing thickness 49-52 mm
Acoustic insulation	Rw up to 43 dB
Security hardware	Up to RC2

Dimensions in mm.	
Thickness of sash	83,5 x 70 mm
Thickness of frame	77,5 x 70 mm
Visible section sash + frame	106 mm
Visible section middle clamp	116 mm

Air permeability	CLASS 4
Water tightness	CLASS E1050
Wind load resistance	CLASS C5

The thermal transmittance values are calculated according to UNI EN 10077/1-2018, UNI EN 10077/2-2018, UNI EN 10456-2008, UNI EN 673-2011 standards, in reference to a window with 1 sash WxH (1230x1480mm, ψg= 0,04 W/mK)

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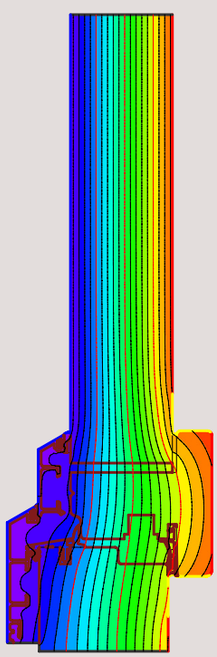

STANDARD - 49 mm glass
SOFT WOOD
Uf = 1,2 W/m²K

Ug W/m²K		**Uw** W/m²K
0,5	-»	0,8
0,6	-»	0,9
0,7	-»	0,9
0,8	-»	1,0
0,9	-»	1,1
1,0	-»	1,2
1,1	-»	1,3

OPEN IN

uni_one BRONZE

DOUBLE GLAZING **Uw=1,2** W/m²K

Material	Wood-Bronze
Thermal insulation	Uw= 1,2 W/m²K
Insulating glass	Double glazing thickness 28 mm
Acoustic insulation	Rw up to 40 dB
Security hardware	Up to RC2

Dimensions in mm.	
Thickness of sash	83,5 x 70 mm
Thickness of frame	77,5 x 70 mm
Visible section sash + frame	106 mm
Visible section middle clamp	145,5 mm

Air permeability	CLASS 4
Water tightness	CLASS E1050
Wind load resistance	CLASS C5

The thermal transmittance values are calculated according to UNI EN 10077/1-2018, UNI EN 10077/2-2018, UNI EN 10456-2008, UNI EN 673-2011 standards, in reference to a window with 1 sash WxH (1230x1480mm, ψg= 0,04 W/mK)

The air-water-wind tightness performances are estimated in reference to a window with 2 sashes WxH (1500x1500mm)

The acoustic insulation values are estimated in reference to a window with 2 sashes WxH (1500x1500mm)

BRONZE - 28 mm glass
SOFT WOOD
Uf = 1,2 W/m²K

Ug W/m²K		**Uw** W/m²K
1,0	-»	1,2
1,1	-»	1,2
1,2	-»	1,3
1,3	-»	1,4
1,4	-»	1,4
1,5	-»	1,5
1,6	-»	1,6

OPEN IN

uni_one BRONZE

TRIPLE GLAZING **Uw=0,8** W/m²K

Material	Wood-Bronze
Thermal insulation	Uw= 0,8 W/m²K
Insulating glass	Triple glazing thickness 49 mm
Acoustic insulation	Rw up to 43 dB
Security hardware	Up to RC2

Dimensions in mm.	
Thickness of sash	83,5 x 70 mm
Thickness of frame	77,5 x 70 mm
Visible section sash + frame	106 mm
Visible section middle clamp	145,5 mm

Air permeability	CLASS 4
Water tightness	CLASS E1050
Wind load resistance	CLASS C5

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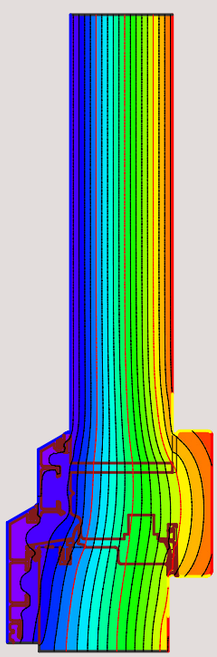
The acoustic insulation values are estimated in reference to a window with 1 sash WxH (1230x1480mm)



BRONZE - 49 mm glass
SOFT WOOD
Uf = 1,2 W/m²K

Ug W/m²K		**Uw** W/m²K
0,5	-»	0,8
0,6	-»	0,9
0,7	-»	0,9
0,8	-»	1,0
0,9	-»	1,1
1,0	-»	1,2
1,1	-»	1,3

OPEN IN

uni_one DROP

DOUBLE GLAZING **Uw=1,2** W/m²K

Material	Wood-Aluminium
Thermal insulation	Uw= 1,2 W/m²K
Insulating glass	Double glazing thickness 28 mm
Acoustic insulation	Rw up to 40 dB
Security hardware	Up to RC2

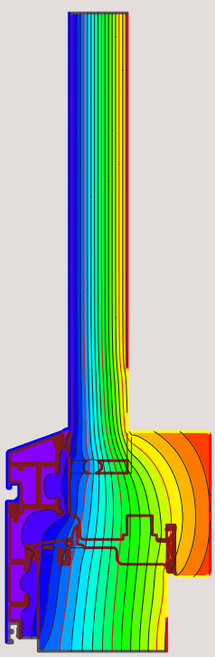
Dimensions in mm.	
Thickness of sash	98,5 x 70 mm
Thickness of frame	77,5 x 72,5 mm
Visible section sash + frame	106 mm
Visible section middle clamp	116 mm

Air permeability	CLASS 4
Water tightness	CLASS E1050
Wind load resistance	CLASS C5

The thermal transmittance values are calculated according to UNI EN 10077/1-2018, UNI EN 10077/2-2018, UNI EN 10456-2008, UNI EN 673-2011 standards, in reference to a window with 1 sash WxH (1230x1480mm, ψg= 0,04 W/mK)

The air-water-wind tightness performances are estimated in reference to a window with 2 sashes WxH (1500x1500mm)

The acoustic insulation values are estimated in reference to a window with 2 sashes WxH (1500x1500mm)



DROP - 28 mm glass
SOFT WOOD
Uf = 1,2 W/m²K

Ug W/m²K		**Uw** W/m²K
1,0	-»	1,2
1,1	-»	1,2
1,2	-»	1,3
1,3	-»	1,4
1,4	-»	1,4
1,5	-»	1,5
1,6	-»	1,6

OPEN IN

uni_one COPLANAR

TRIPLE GLAZING **Uw=0,8** W/m²K

Material		Wood-Aluminium
Thermal insulation		Uw= 0,8 W/m²K
Insulating glass		Triple glazing thickness 44 mm
Acoustic insulation		Rw up to 43 dB
Security hardware		Up to RC2

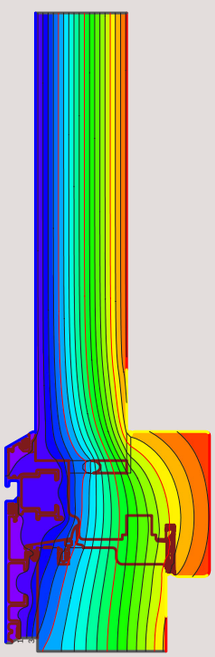
Dimensions in mm.	
Thickness of sash	98,5 x 70 mm
Thickness of frame	77,5 x 72,5 mm
Visible section sash + frame	106 mm
Visible section middle clamp	116 mm

Air permeability		CLASS 4
Water tightness		CLASS E1350
Wind load resistance		CLASS C5

The thermal transmittance values are calculated according to UNI EN 10077/1-2018, UNI EN 10077/2-2018, UNI EN 10456-2008, UNI EN 673-2011 standards, in reference to a window with 1 sash WxH (1230x1480mm, ψg= 0,04 W/mK)

The air-water-wind tightness performances are certified in reference to a window with 2 sashes WxH (1500x1500mm)

The acoustic insulation values are certified in reference to a window with 1 sash WxH (1230x1480mm)



COPLANAR - 44 mm glass
SOFT WOOD
Uf = 1,3 W/m²K

Ug W/m²K		**Uw** W/m²K
0,5	-»	0,8
0,6	-»	0,9
0,7	-»	1,0
0,8	-»	1,0
0,9	-»	1,1
1,0	-»	1,2
1,1	-»	1,3

OPEN IN

uni_one FLAT

TRIPLE GLAZING **Uw=0,8** W/m²K

Material	Wood-Aluminium
Thermal insulation	Uw= 0,8 W/m²K
Insulating glass	Triple glazing thickness 50 mm
Acoustic insulation	Rw up to 46 dB
Security hardware	Up to RC2

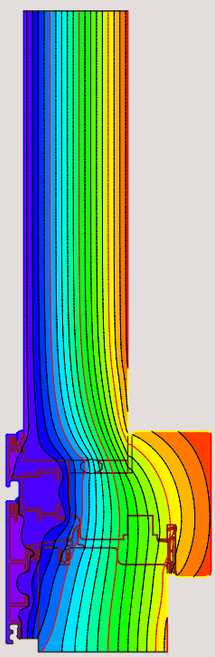
Dimensions in mm.	
Thickness of sash	98,5 x 70 mm
Thickness of frame	77,5 x 72,5 mm
Visible section sash + frame	106 mm
Visible section middle clamp	116 mm

Air permeability	CLASS 4
Water tightness	CLASS E1050
Wind load resistance	CLASS C5

The thermal transmittance values are calculated according to UNI EN 10077/1-2018, UNI EN 10077/2-2018, UNI EN 10456-2008, UNI EN 673-2011 standards, in reference to a window with 1 sash WxH (1230x1480mm, ψg= 0,04 W/mK)

The air-water-wind tightness performances are estimated in reference to a window with 2 sashes WxH (1500x1500mm)

The acoustic insulation values are certified in reference to a window with 1 sash WxH (1230x1480mm)



FLAT - 50 mm glass
SOFT WOOD
Uf = 1,3 W/m²K

Ug W/m²K		**Uw** W/m²K
0,5	-»	0,8
0,6	-»	0,9
0,7	-»	1,0
0,8	-»	1,0
0,9	-»	1,1
1,0	-»	1,2
1,1	-»	1,3

OPEN IN

uni_one SLIM

TRIPLE GLAZING **Uw=0,8** W/m²K

Material	Wood-Aluminium
Thermal insulation	Uw= 0,8 W/m²K
Insulating glass	Triple glazing thickness 44 mm
Acoustic insulation	Rw up to 43 dB
Security hardware	Up to RC2

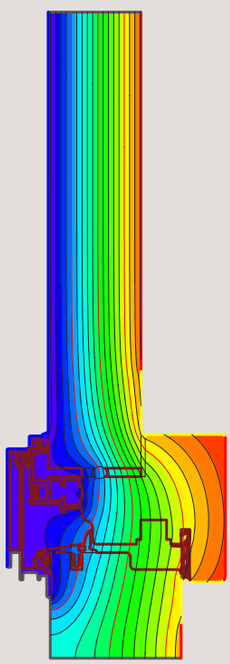
Dimensions in mm.	
Thickness of sash	93 x 70 mm
Thickness of frame	82,5 x 99 mm
Visible section sash + frame	106 mm
Visible section middle clamp	116 mm

Air permeability	CLASS 4
Water tightness	CLASS E1050
Wind load resistance	CLASS C5

The thermal transmittance values are calculated according to UNI EN 10077/1-2018, UNI EN 10077/2-2018, UNI EN 10456-2008, UNI EN 673-2011 standards, in reference to a window with 1 sash WxH (1230x1480mm, ψg= 0,04 W/mK)

The air-water-wind tightness performances are estimated in reference to a window with 2 sashes WxH (1500x1500mm)

The acoustic insulation values are estimated in reference to a window with 1 sash WxH (1230x1480mm)



SLIM - 44 mm glass
SOFT WOOD
Uf = 1,2 W/m²K

Ug W/m²K		**Uw** W/m²K
0,5	-»	0,8
0,6	-»	0,9
0,7	-»	0,9
0,8	-»	1,0
0,9	-»	1,1
1,0	-»	1,2
1,1	-»	1,2

OPEN IN

uni_one TERMOSCUDO

TRIPLE GLAZING Uw=**0,7** W/m²K

Material		Wood-Aluminium

Thermal insulation		Uw= 0,7 W/m²K		Uw= 0,95 W/m²K
Insulating glass		Triple glazing thickness 54 mm		Triple glazing thickness 52 mm

Acoustic insulation		Not declared
Security hardware		Up to RC2

Dimensions in mm.	
Thickness of sash	111,5 x 70 mm
Thickness of frame	108,5 x 73 mm
Visible section sash + frame	106 mm
Visible section middle clamp	145,5 mm

Air permeability		CLASS 4
Water tightness		CLASS E1200
Wind load resistance		CLASS C5

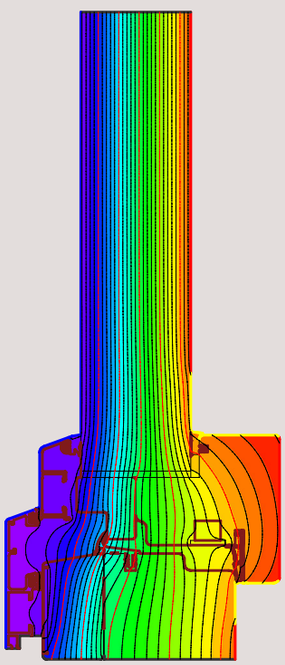
warm, temperate climate — phB — CERTIFIED COMPONENT — Passive House Institute

PASSIVE HOUSE INSTITUTE CERTIFICATION:
WARM, TEMPERATE CLIMATE

Component-ID: 0992wi04
Passive House Institute Dr. Wolfgang Feist, 64283 Darmstadt, Germany

The thermal transmittance values are certified according to UNI EN 10077/1-2018, UNI EN 10077/2-2018, UNI EN 10456-2008, UNI EN 673-2011 standards, in reference to a window with 1 sash WxH (1230x1480mm, ψg= 0,04 W/mK)

The air-water-wind tightness performances are certified in reference to a window with 2 sashes WxH (1230x1480mm)



TERMOSCUDO - 52-54 mm glass
SOFT WOOD
Uf = 0,82 W/m²K

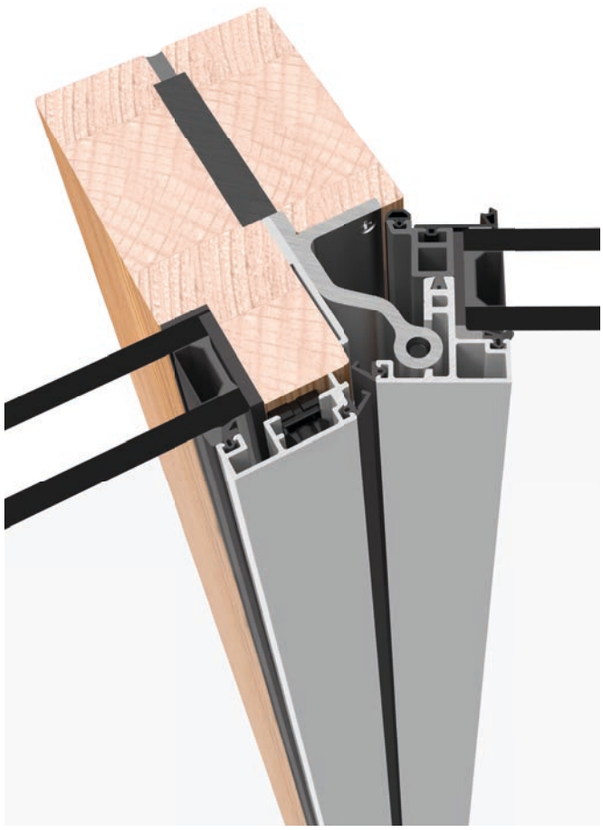
Ug W/m²K		**Uw** W/m²K
0,5	-»	0,7
0,6	-»	0,8
0,7	-»	0,8
0,8	-»	0,9
0,9	-»	1,0
1,0	-»	1,0
1,1	-»	1,1

OPEN
OUT

uni_one
FORMAT38

DOUBLE GLAZING **Uw=1,3** W/m²K

TRIPLE GLAZING **Uw=0,85** W/m²K



Material		Wood-Aluminium

Thermal insulation		Uw= 1,3 W/m²K		Uw= 0,85 W/m²K
Insulating glass		Double glazing thickness 31-37 mm		Triple glazing thickness 41,5-47 mm

Acoustic insulation		Rw up to 42 dB
Security hardware		RC2N

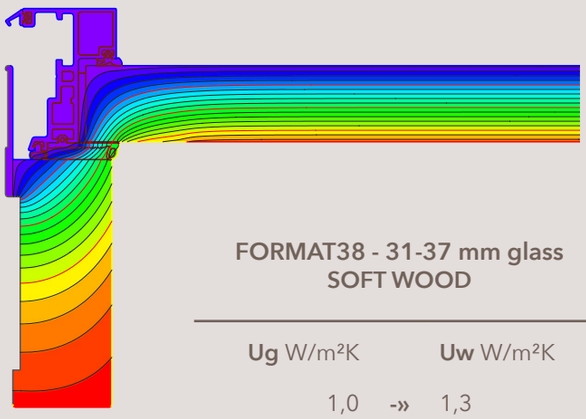
Dimensions in mm.	
Overall dimensions	40 x 161 mm
Visible section	40 mm

Air permeability		CLASS 4
Water tightness		CLASS E1200
Wind load resistance		CLASS C4

The thermal transmittance values are calculated according to UNI EN 10077/1-2018, UNI EN 10077/2-2018, UNI EN 10456-2008, UNI EN 673-2011 standards, in reference to a window with 1 sash WxH (1200x1400mm, ψg= 0,04 W/mK)

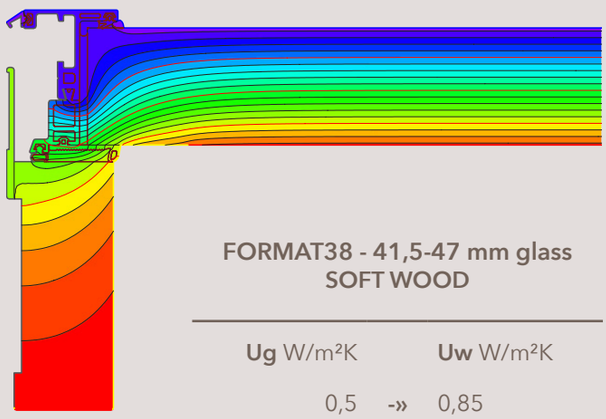
The air-water-wind tightness performances are certified in reference to a window with 1 sash WxH (1000x2440mm)

The acoustic insulation values are certified in reference to a window with 1 sash WxH (1200x1400mm)



FORMAT38 - 31-37 mm glass
SOFT WOOD

Ug W/m²K		**Uw** W/m²K
1,0	-»	1,3
1,1	-»	1,4
1,2	-»	1,5
1,3	-»	1,6
1,4	-»	1,6
1,5	-»	1,7
1,6	-»	1,8



FORMAT38 - 41,5-47 mm glass
SOFT WOOD

Ug W/m²K		**Uw** W/m²K
0,5	-»	0,85
0,6	-»	0,91
0,7	-»	1,0
0,8	-»	1,1
0,9	-»	1,2
1,0	-»	1,3
1,1	-»	1,4

LIFT
& SLIDE

uni_one
HS-SLIM80
KIT UNIFORM

DOUBLE GLAZING Uw=**1,2** W/m²K

TRIPLE GLAZING Uw=**0,76** W/m²K

Material		Wood-Aluminium
Thermal insulation	Uw= 1,2 W/m²K thickness 68 mm	Uw= 0,76 W/m²K thickness 78 mm
Insulating glass	Double glazing thickness 32 mm	Triple glazing thickness 52 mm
Acoustic insulation		Not declared
Security hardware		Up to RC2

Air permeability	CLASS 4
Water tightness	CLASS 8A
Wind load resistance	CLASS C4

The thermal transmittance values are calculated according to UNI EN 10077/1-2018, UNI EN 10077/2-2018, UNI EN 10456-2008, UNI EN 673-2011 standards, in reference to a lift-sliding door Plan A - WxH (2800x2500mm, ψg= 0,04 W/mK)

The air-water-wind tightness performances are certified in reference to a lift-sliding door Plan A - WxH (2800x2500mm)

HS-SLIM80 - 32 mm glass
SOFT WOOD

Ug W/m²K		**Uw** W/m²K
1,0	-»	1,2
1,1	-»	1,3
1,2	-»	1,4
1,3	-»	1,5
1,4	-»	1,6
1,5	-»	1,6
1,6	-»	1,7

HS-SLIM80 - 52 mm glass
SOFT WOOD

Ug W/m²K		**Uw** W/m²K
0,5	-»	0,76
0,6	-»	0,85
0,7	-»	0,95
0,8	-»	1,0
0,9	-»	1,1
1,0	-»	1,2
1,1	-»	1,3

LIFT
& SLIDE

uni_one
HS-DUO80
KIT UNIFORM

DOUBLE GLAZING Uw=**1,2** W/m²K

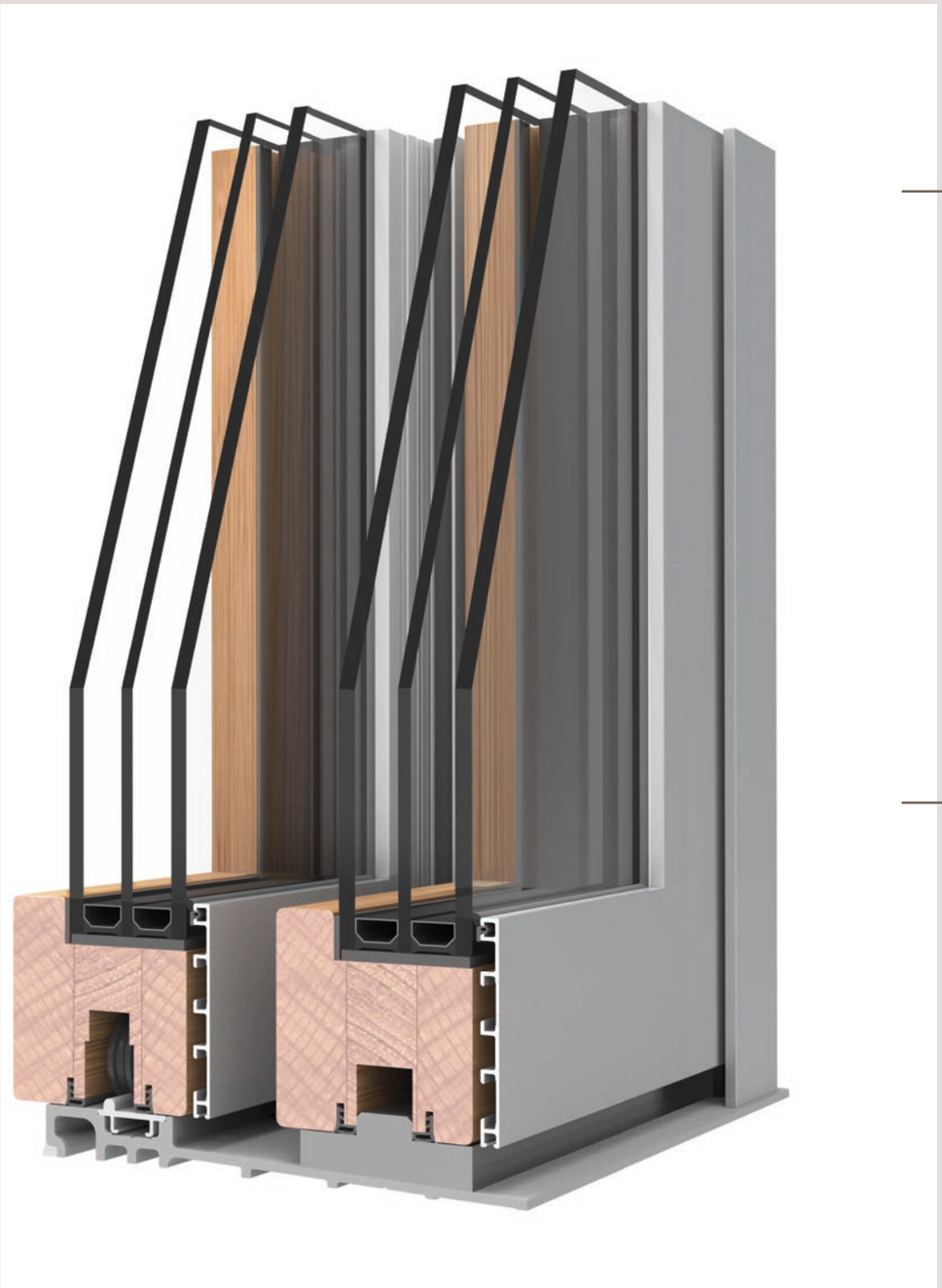
TRIPLE GLAZING Uw=**0,8** W/m²K

Material		Wood-Aluminium
Thermal insulation		Uw= 1,2 W/m²K thickness 68 mm
		Uw= 0,8 W/m²K thickness 78 mm
Insulating glass		Double glazing thickness 32 mm
		Triple glazing thickness 52 mm
Acoustic insulation		Not declared
Security hardware		Up to RC2

Air permeability	CLASS 4
Water tightness	CLASS 8A
Wind load resistance	CLASS B4

The thermal transmittance values are calculated according to UNI EN 10077/1-2018, UNI EN 10077/2-2018, UNI EN 10456-2008, UNI EN 673-2011 standards, in reference to a lift-sliding door Plan A - WxH (2800x2500mm, ψg= 0,04 W/mK)

The air-water-wind tightness performances are certified in reference to a lift-sliding door Plan A - WxH (2800x2500mm)



HS-DUO80 - 32 mm glass
SOFT WOOD

Ug W/m²K		**Uw** W/m²K
1,0	-»	1,2
1,1	-»	1,3
1,2	-»	1,4
1,3	-»	1,5
1,4	-»	1,6
1,5	-»	1,6
1,6	-»	1,7

HS-DUO80 - 52 mm glass
SOFT WOOD

Ug W/m²K		**Uw** W/m²K
0,5	-»	0,8
0,6	-»	0,88
0,7	-»	0,96
0,8	-»	1,0
0,9	-»	1,1
1,0	-»	1,2
1,1	-»	1,3

The Group: Uniform S.p.A.

SAFETY SYSTEM CERTIFICATION
DNV·GL
OHSAS 18001

Technological innovation, quality of materials, energy efficiency, sustainability and respect for mankind and nature.
These principles form the basis of Uniform's business culture and, since the foundation of the company in 1988, have contributed to create a wide range of products with customised solutions and a service aimed at full customer satisfaction.

A leading company in the production of wood-aluminium frame systems, Uniform has developed synergistic products with the aim of becoming the benchmark for both frame manufacturers and operators in the construction and architecture sectors.

Thanks to its highly-specialised in-house team, Uniform is capable of offering advice and support to window manufacturing customers in all phases involved in the design and production of their products.

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uniform
sistemi per serramenti

via dell'Agricoltura, 36
37046 Minerbe - Verona, Italy
tel +39 0442 669669
uniform@uniform.it

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