

FOCUS

ICONA

uni_one
TECHNOLOGY

ICONA

high-tech surface

ICONA is the result of the integration of 3 components: decorative paper, melamine/acrylic resin and NWF (non-woven fabric), pressed together through an advanced technological process that makes them inseparable, imprinting the typical wood grain and creating a materic effect.

SALE - SALT finish
cod. IC 050

PERLA - PEARL finish
cod. IC 051

ROCCIA - ROCK finish
cod. IC 052

CORDA - ROPE finish
cod. IC 053

GRANO - WHEAT finish
cod. IC 054

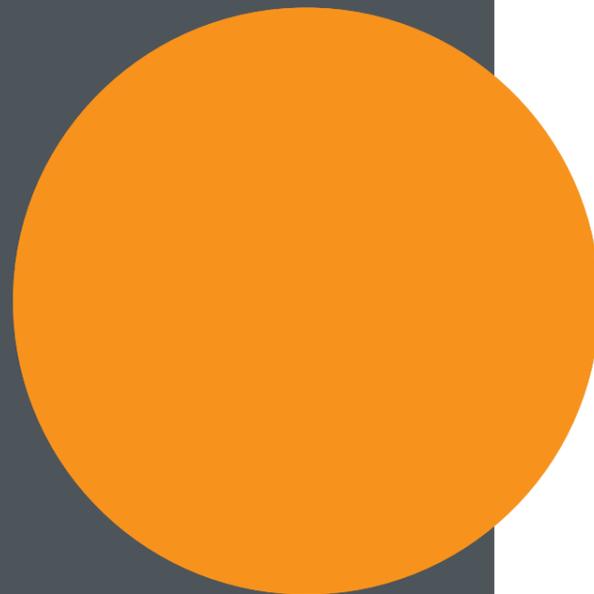
CORTECCIA - BARK finish
cod. IC 055

TORBA - PEAT finish
cod. IC 056

LAVICA - LAVA finish
cod. IC 057

RUGGINE - RUST finish
cod. IC 058

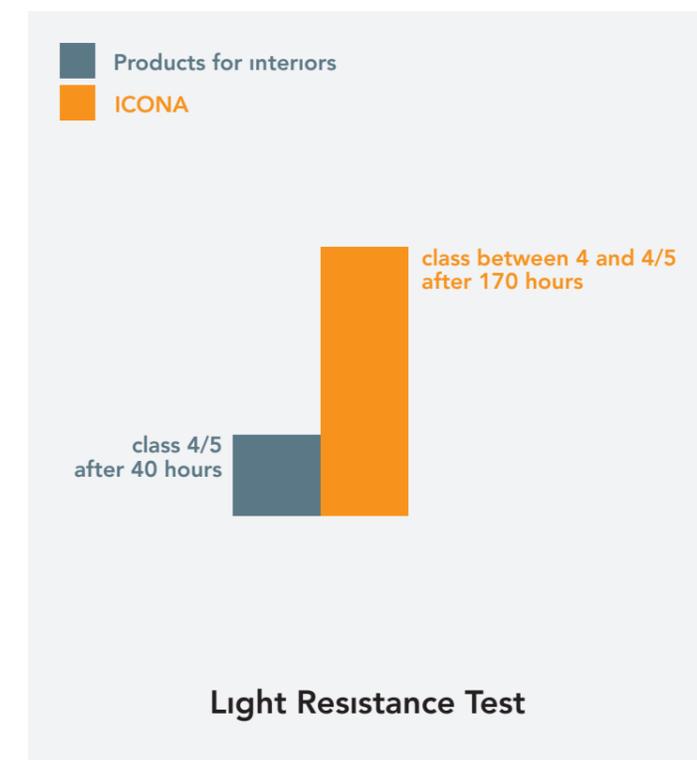
TALCO - TALC finish
cod. IC 059



PRODUCT FEATURES

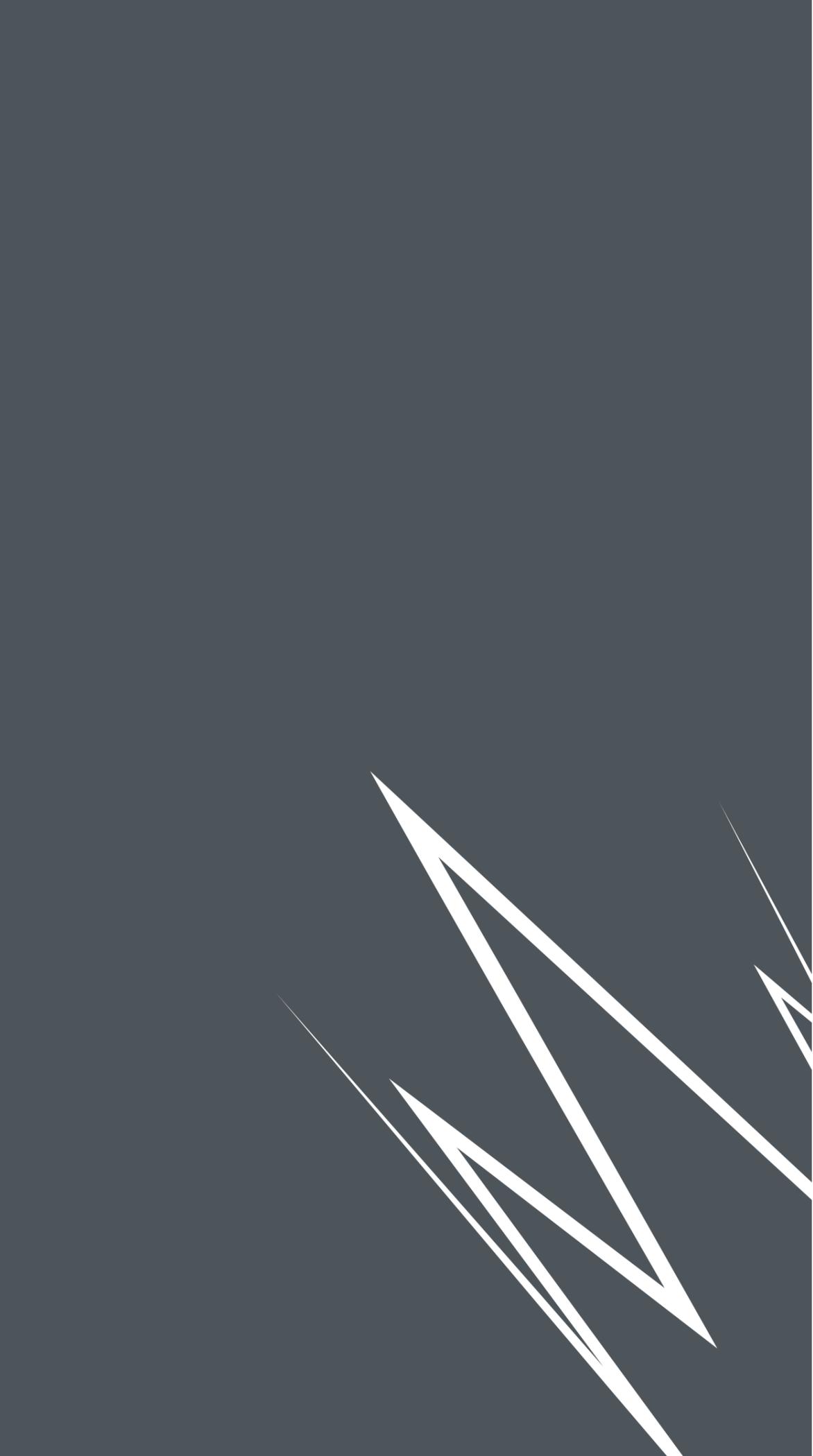
Light Fastness

ICONA did not show any shading in the light resistance test **UNI EN 438-2**: the test involved 170 hours of exposure (usually, in the furniture sector, the test lasts 40 hours). The light resistance test, using special Xenon lamps, reproduces the effects of direct exposure to sunlight in an accelerated manner.



Testing Certification Research

Testing is carried out at the CATAS laboratory.



PRODUCT FEATURES

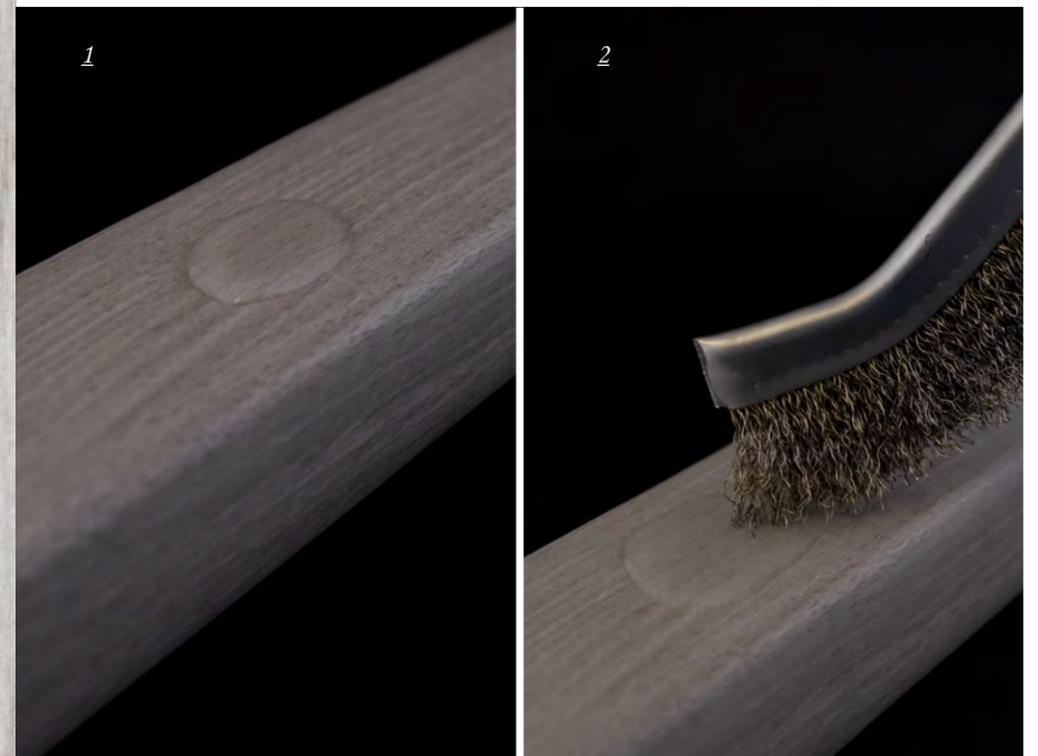
Resistance to scratches

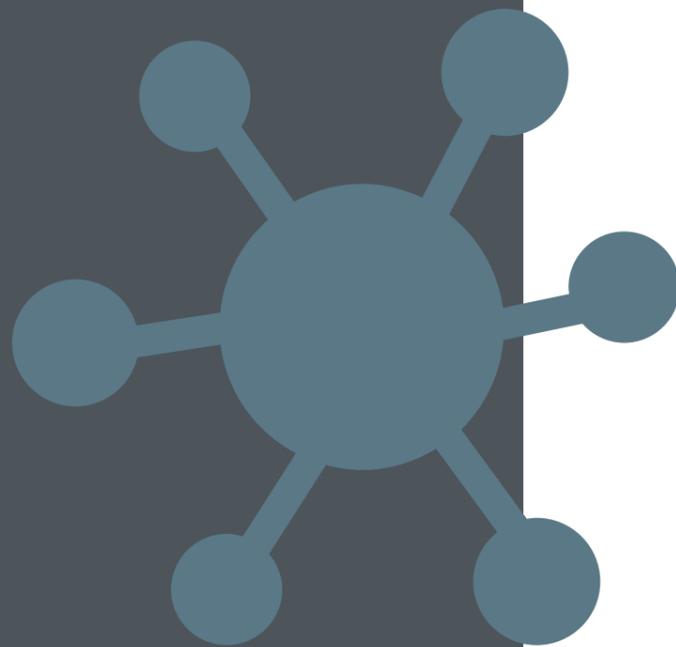
In addition to testing in accordance with **UNI EN 438-2** (result **Class 2**), **ICONA** finishes are also tested with the application of wet mechanical action.

1
Water is poured and left there for 1 hour.

2
After 1 hour, an attempt is made to scratch the surface.

By observing the sample, the following result was established: **NO SURFACE SOFTENING and SCRATCHES FELT.**





PRODUCT FEATURES

Resistance to chemical products

The compatibility of **ICONA** is tested with the main domestic products for window cleaning and with some products for professional use specifically for removing traces of handling and processing. The test conducted by rubbing (20 cycles, 6 Kilopound force applied) absorbent paper soaked in the product highlights the absence of visible effects.

UNIFORM method: cleaning products compatibility test

The absorbent paper was soaked in the chemical cleaning product. The sample was rubbed with alternating movements with medium-strong pressure, making about 20 forward and 20 backward movements. Product residues were immediately dried with clean paper. By observing the sample, the following result was established: **NO VISIBLE EFFECT.**

List of products used for testing that passed the test:

Super Sgrassa Facile Universal Degreaser, Hercuseal Cleaner, Cillit Bang Super Cleaner, Vetril with Ammonia, Pronto Wax Furniture, Ajax Expel, Alcohol 90°, Crai Ammonia, Acetone, Muratic Acid, Würth Industry Cleaner, Nitro Thinner.



PRODUCT FEATURES

Resistance to dirt

Resistance to dirt is tested in accordance with **UNI 9300** standard.

1
A very soiling solution made from graphite powder mixed with vaseline, is deposited on the surface.

2
After 1 hour, the solution is removed with absorbent paper soaked in ethyl alcohol; complete the cleaning process using a small brush and a microfiber cloth.

By observing the sample, the following result was established: **NO TRACE OF THE SOILING SOLUTION REMAINS VISIBLE.**



PRODUCT FEATURES

Adhesion resistance test between ICONA and WOOD

Adhesion resistance is tested based on
Pull-Off prEN 927-8/04 method
(WET adhesion).



1 Milling

Milling with a cutting
tool inserted on a
boring machine.

2 Bonding

Bonding of 20 mm
dollies with
two-component
epoxy glue.

3 Conditioning

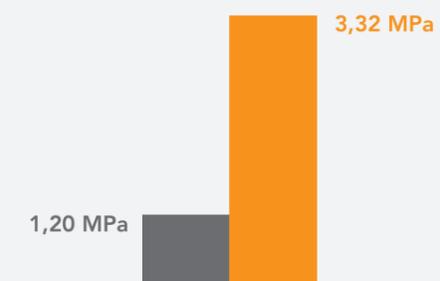
24 hours after bonding
the dollies, they are
conditioned with 0,5 ml
of demineralised water,
creating a ring around
each dolly.

4 Traction

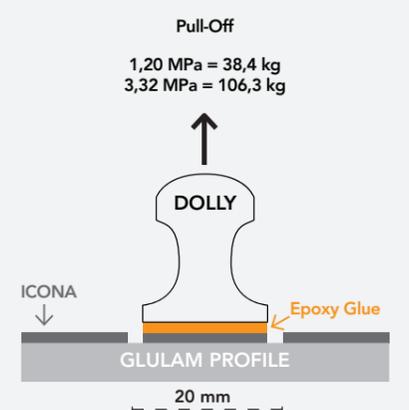
Tensile test with the
**Positest Adhesion
Tester**.

■ Interiors requirement

■ ICONA



Wet adhesion test based on
Pull-Off prEN 927-8/04 method

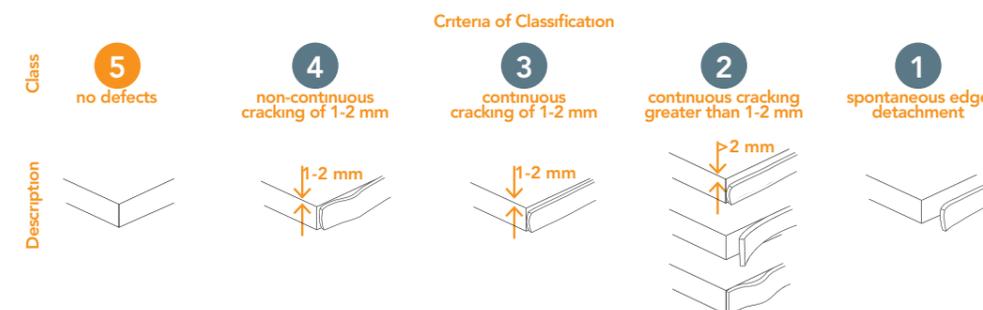




PRODUCT FEATURES

Heat and water resistance (Class 5)

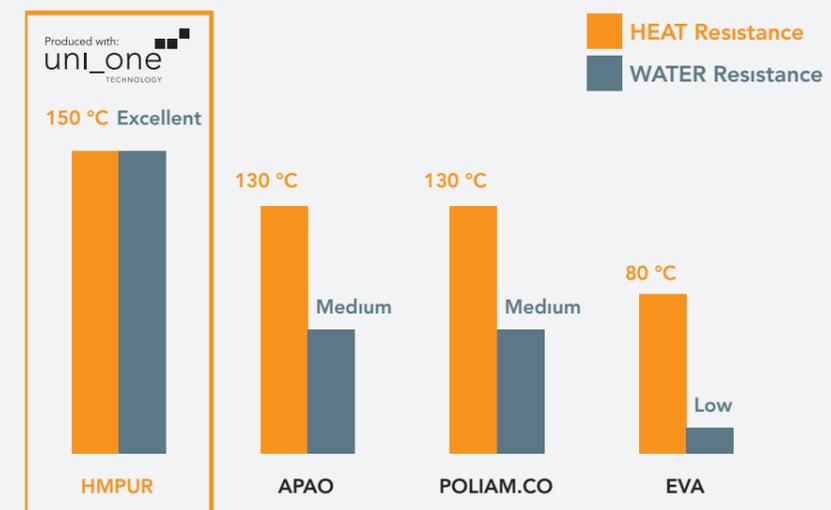
Testing is carried out in accordance with **UNI 9242:1987 + FA 1:1998**, on the adhesion of edges to heat.
After baking, ICONA is checked for defects (Class 5).

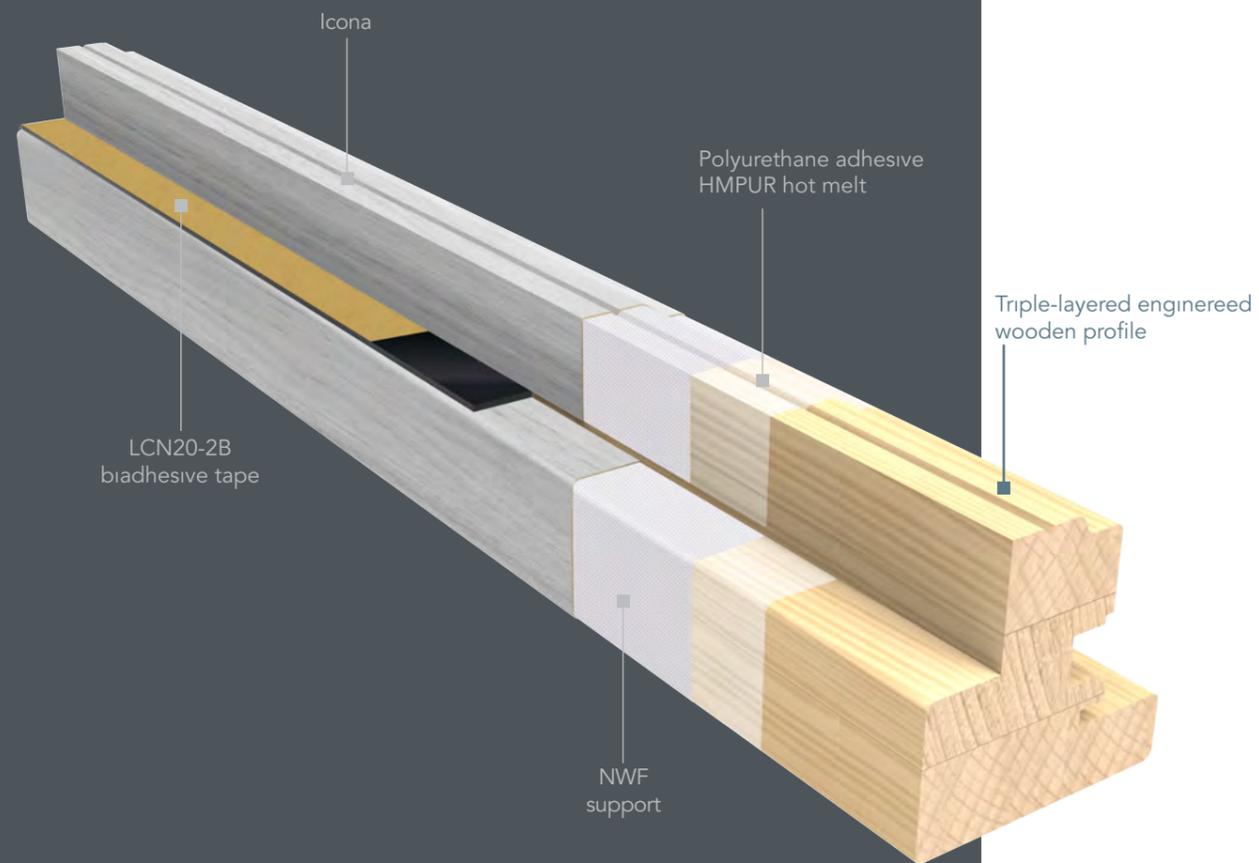


Comparison of the types of glue for VENEERING

- HMPUR:** Synthetic resin: Hot Melt Poly-Urethane Reactive
- APAO:** Synthetic resin: Hot Melt Amorphous Poly Alpha Olefin
- POLIAM.CO:** Adhesive: Hot Melt Polyamide
- EVA:** Synthetic resin: Hot Melt Ethilene Vinyl Acetate

The wooden ICONA profiles are heated for 1 hour @ 120 °C and then for 1 hour @ 150 °C.

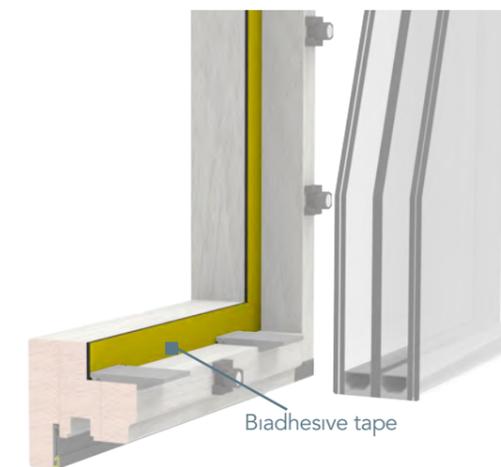




Bonding of the glass on the wood sash

For glass bonding, a double-sided adhesive tape was developed: one side with acrylic adhesive for perfect adhesion to glass and high resistance to UV rays; the other side with acrylic, suitably modified, for optimal adhesion to **ICONA**.

If the glass is replaced, the strip must be cut using a cutter; the remaining part can be removed from the surface of **ICONA**, allowing the wooden part of the door to be reused.



Certifications

For uni_one bars, Uniform uses only wood from FSC® certified forests to support the principles of sustainability and respect for man and nature. Furthermore, production with lamellar technology, optimises the use of plants, minimising waste.

FSC® Controlled Wood CERTIFICATE
available on request

FSC® COC CERTIFICATION (Chain of Custody)
for wooden profiles





Produced with:
uni_one
TECHNOLOGY

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www.sistema-uni-one.it