

THE WORLD'S BEST INSULATING GLASS

U=0,40*

Optimal indoor comfort thanks to maximum insulation, incidence of natural light and lower noise levels.

September, 2024

BENG||GLAS®
Tempered vacuum glazing

* U-value based on 'Evidence of Performance' (IFT Rosenheim, 2016) for type 'BENGglas' with double coating.

THE BENEFITS AT A GLANCE

Maximum and long-lasting insulation



THE BEST INSULATION VALUE ON THE MARKET **0,40**

Insulates better than standard vacuum glass (U=0.70), triple glazing (U=0.80) and HR++ (U=1.10).



+15% INCIDENCE OF NATURAL LIGHT

Compared to triple glazing.



QUIET INTERIOR

Noise is reduced by 36 dB. In layered version, this increases to 39 dB.



FULLY TEMPERED

5 times stronger, injury-resistant and no risk of thermal breakage.



EXPECTED LIFESPAN OF 50 YEARS

Whereas HR++ and triple glazing have an average lifespan of 25 years.



FITS IN EXISTING FRAMES

Save on the cost of materials and preserve the authentic features of your home.



100% RECYCLEABLE

Contributes to a circular economy.



15-YEAR WARRANTY

The first five years 100%. It decreases proportionally thereafter.



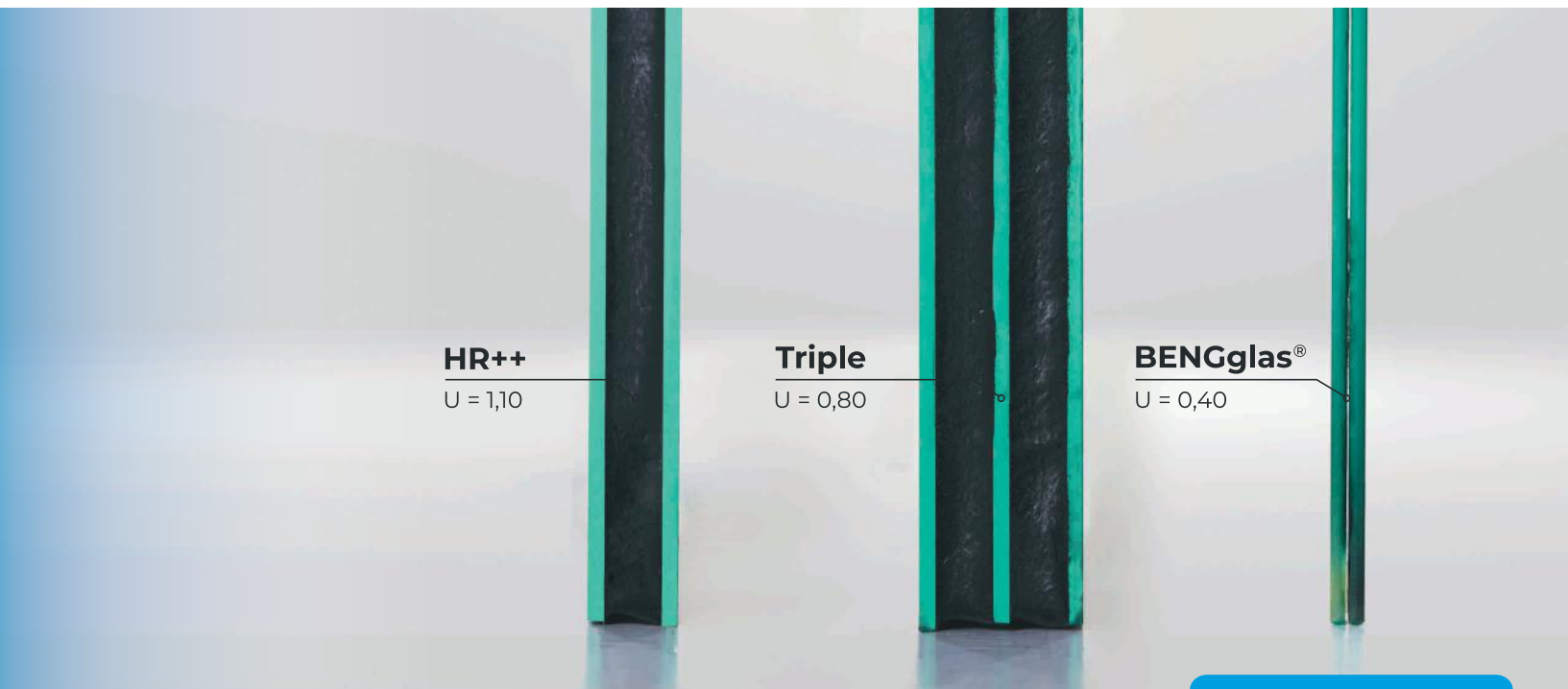
UP TO 7X FEWER SPACERS

Compared to other brands μ of vacuum glass.

: U-value based on 'Evidence of Purance' (IFT Rosenheim, 2016) for type 'BENGglas' with double coating.

THE LATEST GENERATION

The latest development in insulating glass



HR++
U = 1,10

Triple
U = 0,80

BENGglas®
U = 0,40

	HR++	Triple	BENGglas®
U-value	1,10	0,80	✓ 0,40
Thickness (mm)	21	38	✓ 8,3
Weight kg/m²	22,5	35	✓ 20
Tempered	Optional	Optional	✓ Standard
Soundproofing Rw (C ; Ctr) dB	31 (-1;4)	33 (-2;6)	✓ 36 (-2;-3)
Lifespan (years) Degradation U-value?	20 - 25 With degradation	30 With degradation	✓ 25 - 50 No degradation
Light transmission	80	71	✓ 45 - 83



FOR EVERY MARKET

A wide range suitable for any vacuum glass application



RENOVATION

BENGglas® is very thin and almost always fits in existing window frames, preserving the authentic look of the property.

- Very thin & lightweight
- No vacuum caps
- Slim sealing edge

NEW CONSTRUCTION

BENGglas® is ideally suited to bring buildings up to the mandatory BENG (Nearly Zero-Energy Buildings) standard. A U-value of 0.40 also reduces energy requirements:

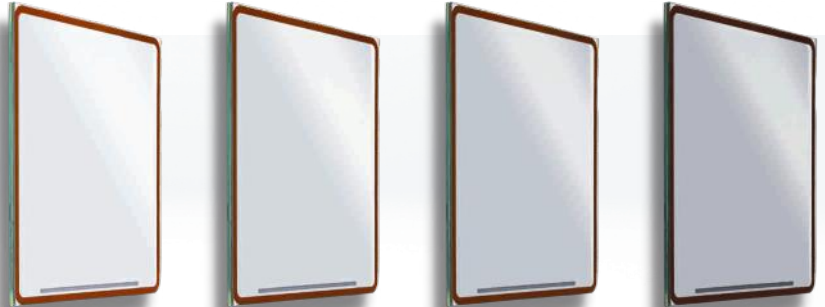
- Less heavy-duty heat pump
- Fewer solar panels
- Better energy label

It is also possible to use BENGglas® for floor-to-ceiling glazing. Laminating, tempering and solarcontrol coatings ($G = 0.29$) are among the possibilities.



RANGE AND SPECIFICATIONS

PERMANENTLY
REDUCED IN PRICE!



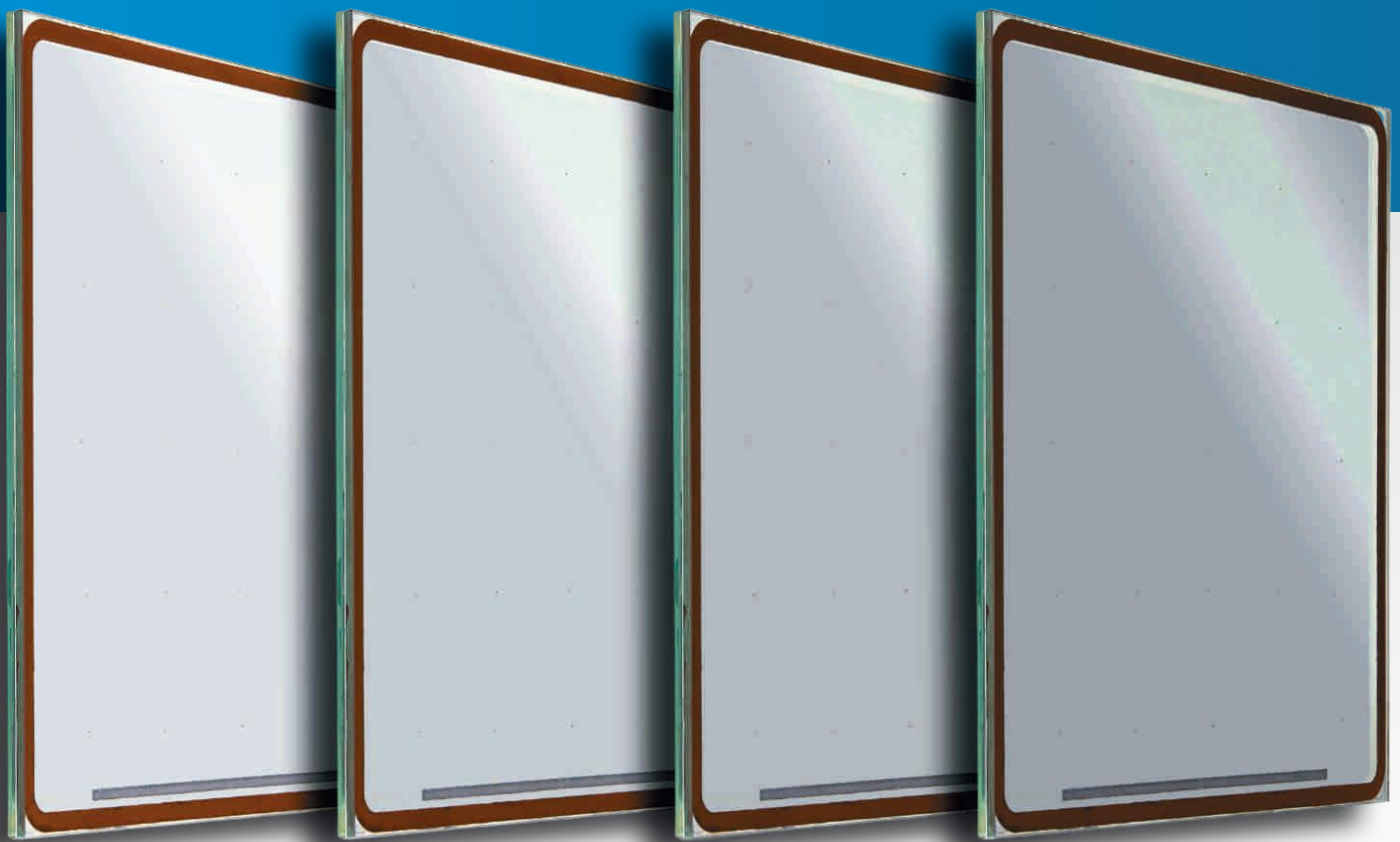
SPECIFICATIONS	BENGGlas® Extra Clear	BENGGlas® MAX 0.50	BENGGlas® MAX 0.40	BENGGlas® Solar Control
U-value	0,50	0,50	0,40	0,40
LTA in %	83	78	70	45-47
G-value	0,68	0,58	0,39	0,29
Thickness from (mm)	8,3	8,3	8,3	9,3
Weight from (kg/m ²)	20	20	20	20
Tempered	Yes	Yes	Yes	Yes
Option laminated	Yes (EVA)	Yes (EVA)	Yes (EVA)	Yes (EVA)
Noise reduction (dB)	36 (-2 ; -3)	36 (-2 ; -3)	36 (-2 ; -3)	36 (-2 ; -3)
Sealing edge (mm) / coloured edge	9	9	9	9
Coloured edge incl. absorption strip (mm)	14	14	14	14
Visible vacuum cap/absorption strip	No	No	No	No
Absorption	Strip	Strip	Strip	Strip
Min. surface area to be calculated	0,3	0,3	0,3	0,3
Max. size in mm*	2.000 x 3.000	2.000 x 3.000	2.000 x 3.000	2.000 x 3.000
- From june 2024 (info will follow)*	2.440 x 4.200	2.440 x 4.200	2.440 x 4.200	2.440 x 4.200
Min. size in mm*	200 x 230	200 x 230	200 x 230	200 x 230

* Sizes not possible with width-to-height ratio greater than 1: 6.8

ADDITIONAL OPTIONS AND INFORMATION

PRODUCT SELECTOR	BENGglas® Extra Clear	BENGglas® MAX 0.5	BENGglas® MAX 0.4	BENGglas® Solar Control
Best insulation value	0,50	0,50	✓ 0,40	✓ 0,40
Highest light transmission	✓ 83	78	70	45-47
Best sun protection	0,68	0,58	0,39	✓ 0,29
Color-neutral glass	✓ Extra clear	Yes	No	No

Exclusively manufactured by **LandVac®**



A SMART INVESTMENT

with long-lasting high efficiency



LONG LIFESPAN: MORE THAN 25 YEARS

Up to 2x longer than traditional insulating glass.



SAVE ON NEW WINDOW FRAMES

BENGglas® is ultra-thin and fits into existing window frames.



HIGHER HOME VALUE DUE TO BETTER ENERGY LABEL

The investment in the glass is put directly into the value of your home or property.



SAVE ON ADDITIONAL MEASURES

BENGglas® reduces the energy requirements of your building or home. Your building will require fewer solar panels and a less heavy-duty heat pump.



SAVE MORE FROM DAY ONE

Insulates 3x better than HR++ and 2x better than triple glazing. You'll see significant savings on your energy bills from day one.



NO DEGRADATION OF INSULATION VALUE

HR++ and triple glazing lose their insulation value over time. With BENGglas®, the insulation value remains stable for at least 25 years.



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BENG||GLAS[®]
Tempered vacuum glazing

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