

Sept 2022

BENG||GLAS

Tempered vacuum glazing



The best insulating glass in the world: $U=0.40$
Ideal for new construction and renovation

BENGGLAS

Tempered vacuum glazing

Renovation

BENGglas is a perfect product for the renovation market. Unlike traditional insulation glass, vacuum glazing is extremely thin (from 6.3 mm) and will therefore always fit into existing window frames. Replacing a window frame is therefore not necessary.

With its low U-value, BENGglas also contributes to the sustainability of existing homes and buildings. With the replacement of single glass to tempered vacuum glazing, the energy footprint will drastically improve.

Why BENGglas ?



Best insulation value ($U=0.40$)



Noise reduction (dB=36)



Tempered: 5x stronger, injury safe, no thermal breakage



Ideal for renovation; thin and light weight



15 year warranty, 25 years min. life span



Many options: higher LTA, shaped windows, laminated, heat soak test



6x fewer and smaller spacers



Fair prices



Free from condensation on the inside



Eco-friendly

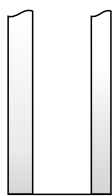


New construction

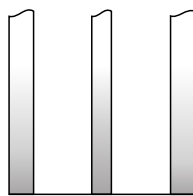
It is still the case that glass is the weak link in the thermal insulation of a home or building. For example, traditional HR++ glass has a U value of 1.10 and triple glass a U value of 0.80. An insulation value of 0.40 is therefore unique and brings 'energy neutral buildings' closer.

By using BENGglas you can save costs further down the design process. For example, fewer solar panels, a less powerful heat pump and lighter hinges and locks.

The BENGglas portfolio consists of various types, each with specific properties. This allows virtually any project to be provided with a vacuum glass solution.

HR++**Triple****Standard
vacuum glazing****BENG|GLAS**
Tempered vacuum glazing

Thickness from
21 mm



38 mm



6.3 mm



6.3 mm

U-value	1.10	0.80	0.70	0.40
Weight / m ²	22,5 kg	35 kg	15 kg	15 kg
Tempered	Optional	Optional	Not	Optional

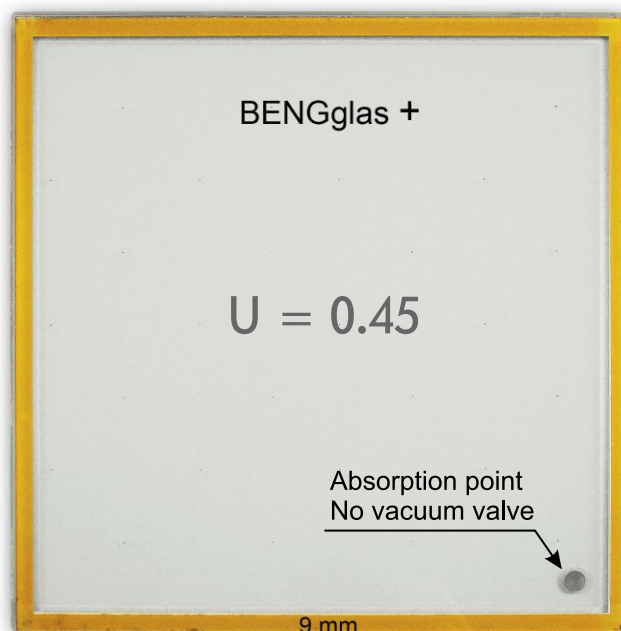
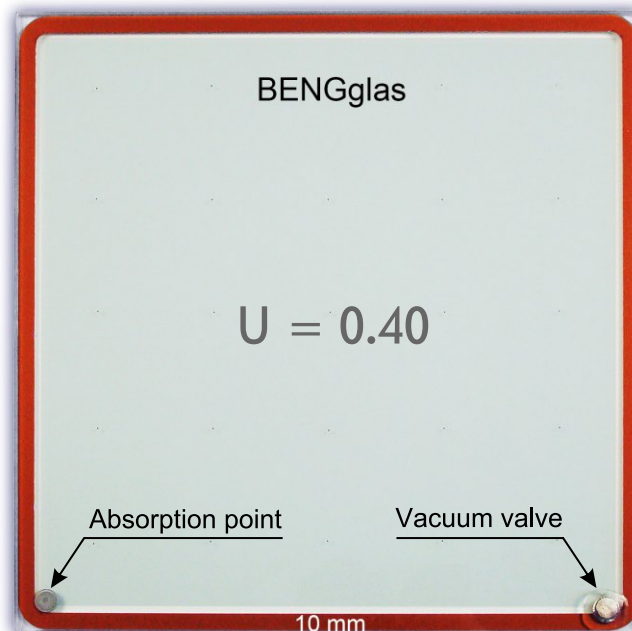
**BENG|GLAS**
Tempered vacuum glazing

	BENGglas BASIC	BENGglas	BENGglas PRO	BENGglas +
Thickness from (mm)	8.15	8.3	12.3	6.3
Weight from(kg/m ²)	20	20	30	15
Maximum size (mm)	1500 x 2500	1500 x 2500	1800 x 3000	1500 x 2500
Minimal size (mm)	300 x 300*	300 x 300	300 x 300	300 x 300
Tempered	From 10,15 mm	Yes	Yes	Yes
Option laminated	Yes (EVA)	Yes (EVA)	No	Yes (EVA + PVB)
dB-value	36	36	36	36
Sealing edge (mm)	14	9	18	10
Visible vacuum valve	No	Yes	No	No
Absorption	Strip	Round	Strip	Round
Waranty period (year)	15	15	15	15
Minimum area to be calculated	0.3	0.3**	0.3**	0.3
Coating - D80				
U-value	n.a.	0,40	0,45	0,45
LTA (%)	n.a.	70	63	70
G-value	n.a.	0.39	0.39	0.39
Coating - S1.16				
U-value	0,58	0,50	0,55	0,55
LTA (%)	78	78	72	78
G-value	0.58	0.58	0.53	0.58

* Possible if 1 size < 300 mm and if combined with 1 side > 300 mm (annealed)

** Between 0.3 and 0.5 m² 0.5 m² is the minimum area to be calculated

N.b. BENGglas+ is only suitable for repeating dimensions (25m² per size)



Options:

- Extra clear glass for increased light entry
- Laminated inner pane (both panels tempered)
- Anti-dirt adhesion coating
- Shaped glass
- Thicknesses (mm): 6.3, 8.3, 10.3, 12.3, 16.3 and 20.3
- With or without vacuum valve in sight
- Monumental glass

BENG||SOLAR
SOLAR SOLUTIONS

While BENGglas focuses on saving energy, BENGsolar focuses on generating energy. Together, they are part of BENGproducts B.V.

BENGsolar is your innovative partner in the field of building integrated solar applications. BENGsolar has several unique solutions for this new way of integrating solar panels into the building.

Together with BENGglas, we are building towards a more sustainable world!

BENG||GLAS
Tempered vacuum glazing



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