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CNCGLASS TECHNICAL NOTE

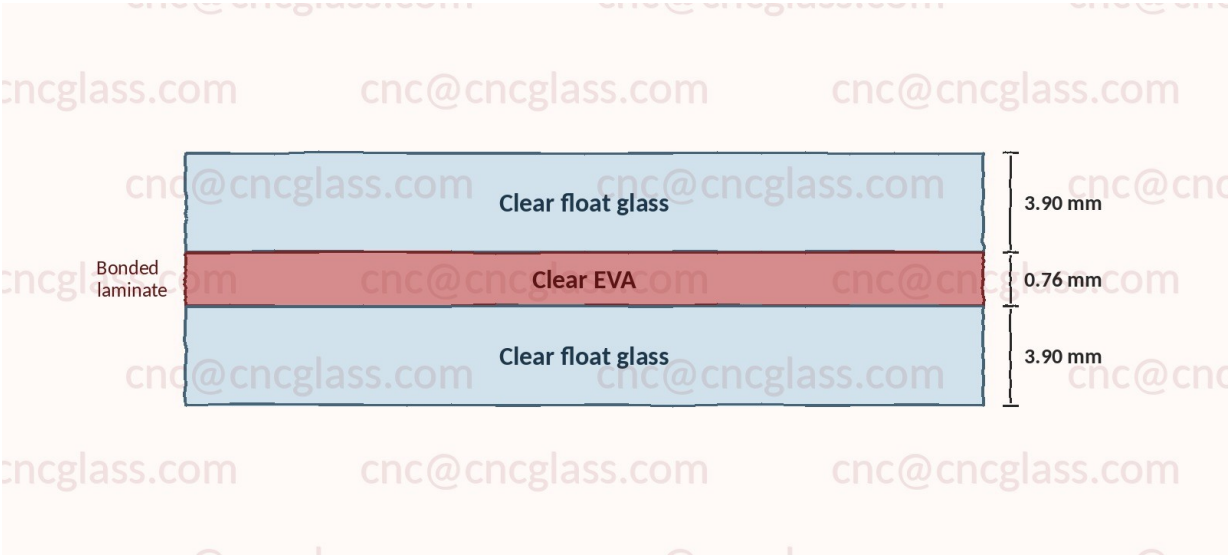
CNCGLASS 0.76 mm Clear EVA Laminated Glass — Durability and Light

A clear EVA laminate — 3.90 mm clear float / 0.76 mm clear EVA / 3.90 mm clear float, nominal 8.56 mm — was evaluated for high-temperature and humidity resistance, for radiation resistance to EN ISO 12543-4:2011, and for luminous and ultraviolet transmittance to EN 410:2011. No bubbles, delamination or cloudiness were observed after heat or humidity. After 2000 h of radiation the relative differences in luminous transmittance were 0.3 %, 0.6 % and −0.2 %, with no delamination, conforming to EN ISO 12543-2:2011 point 5.3. Mean luminous transmittance was 87.6 %, with UV transmittance of 0.05 %.

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Construction

The makeup is a clear EVA laminated safety glass: two plies of 3.90 mm clear float glass bonded with a 0.76 mm clear EVA interlayer. The nominal thickness is 8.56 mm. High-temperature and humidity specimens were cut from a larger pane, with two sides left without edge working and two sides polished, and measured 300 mm × 300 mm.



Clear laminate construction: 3.90 mm clear float / 0.76 mm clear EVA / 3.90 mm clear float.

High temperature and humidity

High-temperature exposure followed EN ISO 12543-4:2011 point 5, Procedure A, for 16 h. Humidity exposure followed point 6.3.1. After each exposure the three specimens were measured for thickness and inspected for bubbles, delamination and cloudiness. None were found, and both items conformed.

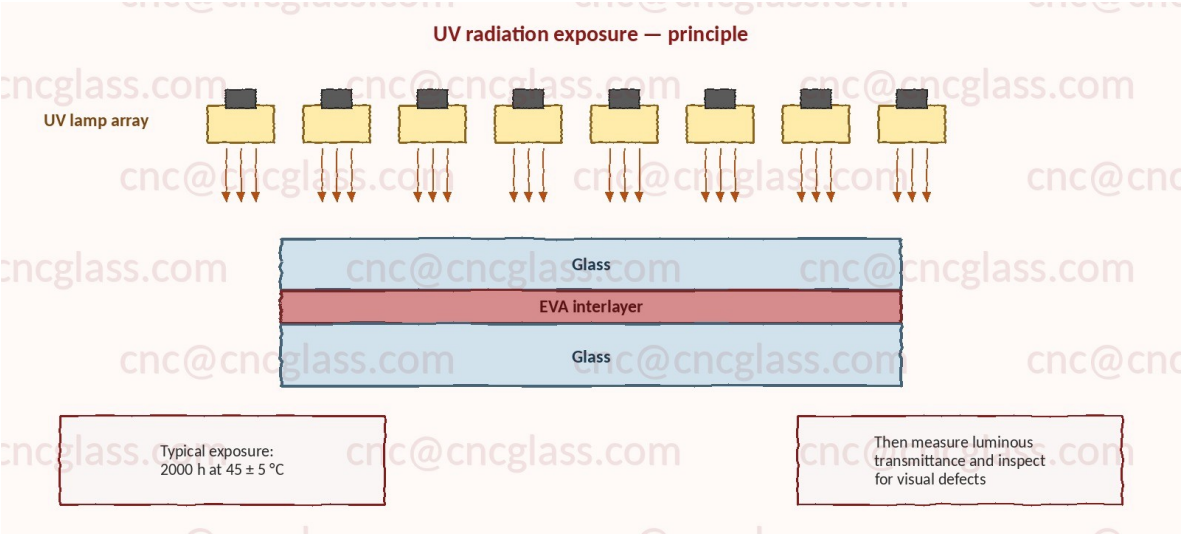
Exposure	Thickness (mm)	Bubbles / delamination / cloudiness	Conformity
High temperature — specimen 1	8.16	None / None / None	Yes

High temperature — specimen 2	8.14	None / None / None	Yes
High temperature — specimen 3	8.18	None / None / None	Yes
Humidity — specimen 1	8.14	None / None / None	Yes
Humidity — specimen 2	8.19	None / None / None	Yes
Humidity — specimen 3	8.15	None / None / None	Yes

Radiation resistance

Radiation exposure followed EN ISO 12543-4:2011 method A, for 2000 h at 45 ± 5 °C, on 30 cm × 30 cm specimens of average thickness 8.2 mm. The relative differences below are those recorded after the exposure. No delamination was observed. The construction conforms to EN ISO 12543-2:2011 point 5.3.

Specimen	τv before (%)	τv after (%)	Relative difference (%)
1	87.9	87.6	0.3
2	87.1	87.6	0.6
3	87.9	87.7	−0.2



Principle of the ultraviolet radiation exposure used to assess transmittance stability of the 0.76 mm clear EVA laminate.

Luminous and ultraviolet transmittance (EN 410:2011)

Spectral transmittance was measured over 300–800 nm and reduced to EN 410:2011 characteristics as the mean of three determinations. Ultraviolet transmittance was 0.05 %. Luminous transmittance was 87.6 %. The nominal thickness quoted on the optical evaluation is 8.56 mm.

Commentary for laminated-glass use

A 0.76 mm clear EVA in a 3.90 + 3.90 mm clear float makeup is a standard architectural clear laminate. The optical figures — 87.6 % luminous transmittance and 0.05 % ultraviolet transmittance — match the clarity expected of a well-processed clear EVA at this gauge. The radiation results are unusually tight: the three relative differences of 0.3 %, 0.6 % and −0.2 % sit essentially at the repeatability of the measurement, and all are far inside the ± 10 % allowance that applies when the initial luminous transmittance exceeds 20 %. A small apparent increase on one specimen is reported as recorded and should be read as measurement scatter, not as a gain in transmittance.

Procedure A and condensed humidity on mixed polished / unworked edges likewise showed no bubbles, delamination or cloudiness, with thicknesses clustered around the 8.56 mm nominal value. The construction can be specified as CNCGLASS 0.76 mm clear EVA laminated glass for general clear safety glazing. It is a close companion to the 0.80 mm

clear EVA makeup summarised in a separate note; the two gauges should not be treated as interchangeable without checking the process window of the lamination line.

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