



on top

with  
**PLANIBEL A**



GLASS UNLIMITED

Window  
Energy  
Efficiency

# be **A**W<sup>ER</sup> with PLANIBEL A

**PLANIBEL A:**  
taking hard coatings to the forefront of glass technology  
PLANIBEL A is AGC's new high performance LOW-E hard coating specially developed to perform to the highest ratings within the WER scale.

PLANIBEL A is a highly energy efficient glass that is perfectly suited for high performance domestic windows. It's the right choice to achieve the best performance and above all, it is totally environment-friendly!

## On top with PLANIBEL A

AGC Glass Europe is a European leader in flat glass.

AGC Glass Europe produces, processes and sells flat glass for the construction industry (exterior glazing and interior decorative glass), for the automotive sector and specialised industries. Based in Brussels, Belgium, it is the European Head Quarters of AGC Glass, the world's leading producer of flat glass.

Once assembled in double glazing PLANIBEL A provides:

- ▶ a high solar factor, which maximizes the free solar heat gain (SF: 78% with external sheet PLANIBEL Clearvision);
- ▶ a low Ug-value that can further be improved by the use of gas filling (Argon) and/or the use of a Warm Edge spacer.

PLANIBEL A is a revolutionary new hard coating that meets the highest glass performance expectations for Window Energy Ratings (WERs) without the need for edge deletion. Thanks to its unique "fasT" technology, PLANIBEL A offers unrivalled processing performance with faster toughening cycles of up to 15% over traditional hard coatings and up to 25% improvement in comparison with alternative soft coating solutions.

With exceptional performance and enhanced processing benefits, helping your customers to achieve WER ratings of C to A using PLANIBEL A could not be easier, PLANIBEL A has taken hard coatings to the forefront of glass technology making it the right choice for both the processor and window manufacturer!



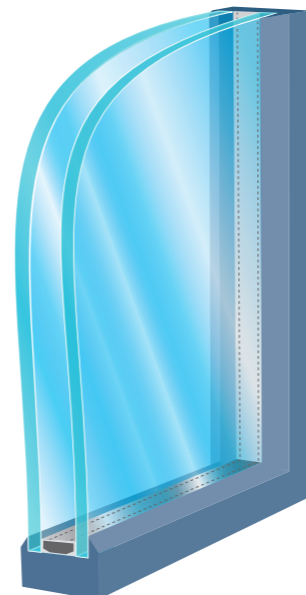
External sheet PLANIBEL Clearvision<sup>(1)</sup>  
+ Warm Edge and PLANIBEL A #3<sup>(2)</sup> (Ar 90%)<sup>(3)</sup>



External sheet PLANIBEL Clearvision  
or Warm Edge and Planibel A #3 (Ar 90%)



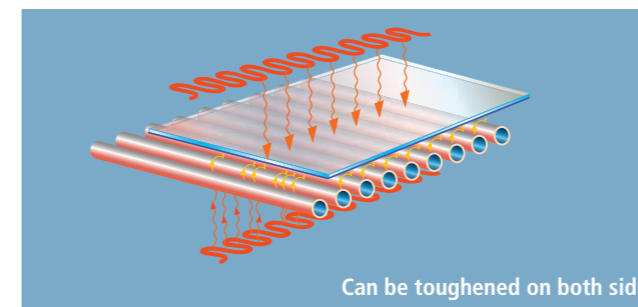
External sheet PLANIBEL Clear and PLANIBEL A #3 (Ar 90%)



(1) AGC extra clear glass  
(2) The PLANIBEL A coating is always on clear float. Applying the coating to extra clear float does not add substantially enough to the overall g-window (SF) value for a better WER rating.  
(3) Within a thermally enhanced window profile.

Thanks to its unique "fasT" technology, PLANIBEL A

- ▶ can be toughened with the coating against the rollers
- ▶ has a faster toughening cycle (up to 25% improvement in comparison with alternative soft coating solutions). It can be tempered just like clear float (so no need for convection).



| Value table                 | External sheet   | Position | LR <sup>4</sup> (%) | LT <sup>4</sup> (%) | SF <sup>4</sup> (%) | Ug-value <sup>5</sup> W/(m <sup>2</sup> .K) |
|-----------------------------|------------------|----------|---------------------|---------------------|---------------------|---|
| PLANIBEL A 4mm              |                  | #2       | 10                  | 80                  | 71                  | 3.5   |
| PLANIBEL A 6mm              |                  | #2       | 10                  | 79                  | 69                  | 3.5   |
| PLANIBEL A                  | With Clear       | #3       | 17                  | 72                  | 73                  | 1.4   |
| 4-16-4 (Ar 90%)             | With Clearvision | #3       | 17                  | 74                  | 78                  | 1.4   |
| PLANIBEL A                  | With Clear       | #3       | 17                  | 72                  | 73                  | 1.4   |
| 4-20-4 (Ar 90%)             | With Clearvision | #3       | 17                  | 74                  | 78                  | 1.4   |
| PLANIBEL G                  | With Clear       | #3       | 17                  | 74                  | 73                  | 1.5   |
| 4-16-4 (Ar 90%)             | With Clearvision | #3       | 18                  | 75                  | 77                  | 1.5   |
| PLANIBEL G                  | With Clear       | #3       | 17                  | 74                  | 73                  | 1.5   |
| 4-20-4 (Ar 90%)             | With Clearvision | #3       | 18                  | 75                  | 77                  | 1.5   |
| PLANIBEL Top <sup>++</sup>  | With Clear       | #3       | 13                  | 78                  | 61                  | 1.1   |
| 4-16-4 (Ar 90%)             | With Clearvision | #3       | 13                  | 80                  | 64                  | 1.1   |
| PLANIBEL Top <sup>++</sup>  | With Clear       | #3       | 13                  | 78                  | 61                  | 1.2   |
| 4-20-4 (Ar 90%)             | With Clearvision | #3       | 13                  | 80                  | 64                  | 1.2   |
| PLANIBEL Top <sup>++T</sup> | With Clear       | #3       | 13                  | 80                  | 64                  | 1.1   |
| 4-16-4 (Ar 90%)             | With Clearvision | #3       | 13                  | 81                  | 68                  | 1.1   |
| PLANIBEL Top <sup>++T</sup> | With Clear       | #3       | 13                  | 80                  | 64                  | 1.2   |
| 4-20-4 (Ar 90%)             | With Clearvision | #3       | 13                  | 81                  | 68                  | 1.2   |

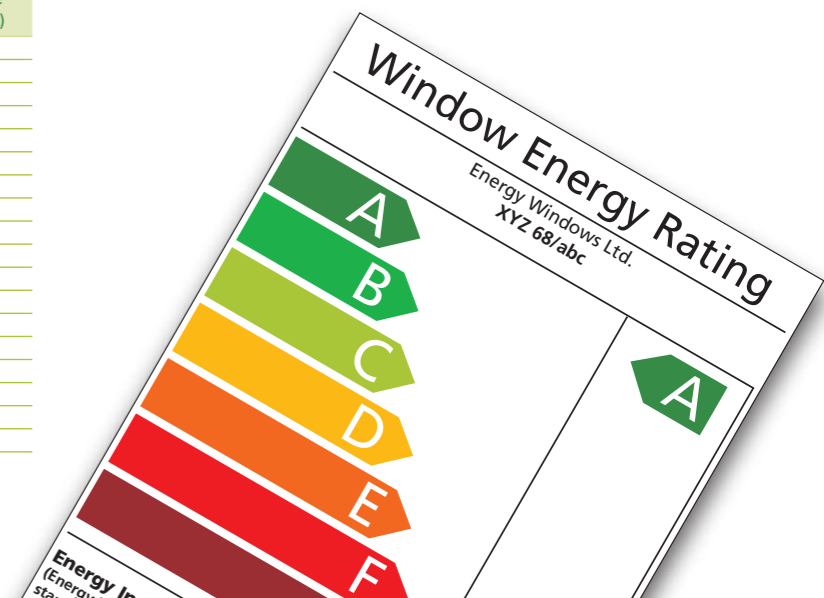
(4) LR: Light reflection – LT: Light transmission – SF: Solar factor – Values according to EN 410.  
(5) According to EN 673.  
For more compositions visit [www.yourglass.com](http://www.yourglass.com) – toolbox – Glass Configurator

## Clear advantages for the processor

PLANIBEL A has exceptional features such as:

- ▶ ease of processing
- ▶ no edge stripping
- ▶ no need for cover sheet
- ▶ improved resistance to scratches
- ▶ fast tempering cycle thanks to higher emissivity and "fasT" technology
- ▶ can be tempered like clear float (no need for convection)
- ▶ one glass for both tempering and non tempering solutions
- ▶ can be used in single glazing, double glazing or laminated
- ▶ a much longer shelf life (vs. a soft coating)
- ▶ a neutral appearance.

Visit [www.yourglass.com](http://www.yourglass.com) for more information about our range of PLANIBEL LOW-E products (technical performance, availability, processing guides).





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